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Baltimore. Mayor's

REPORTS

OF THE

CITY OFFICERS

MADE TO THE

MAYOR AND CITY COUNCIL

OF BALTIMORE

FOR THE YEAR 1898.

BALTIMORE:
THOS. J. SHEUBROOKS, CITY PRINTER,
N. E. Cor. Charles and Lombard Sts.

1899.

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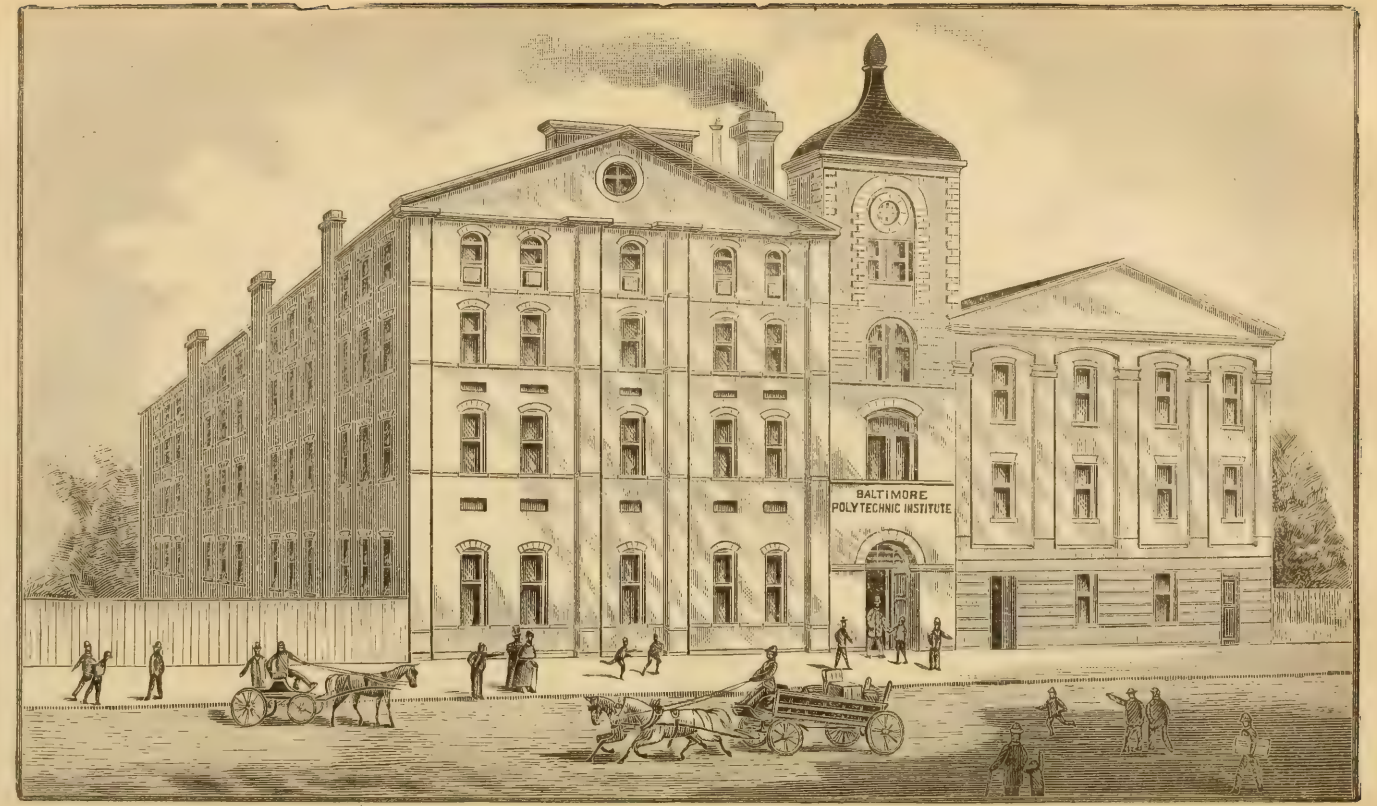


New Building. Old Building.

Fifteenth Annual Register

— OF THE —

Baltimore Polytechnic Institute,

311 to 331 Courtland Street.

1899.

PRESS OF
J. W. BOND COMPANY,
BALTIMORE, MD.

1899.

CALENDAR 1899.

January 3.	Institute reopens.
February 11.	Third term begins.
February 14.	Classes alternate in the shops.
February 22.	Washington's Birthday.
March 8.	Anniversary of the opening of the Institute.
March 10.	Anniversary of the opening of the Preparatory Department.
March 30.	Holy Thursday.
March 31.	Good Friday.
April 3.	Easter Monday.
April 14.	Arbor Day.
April 28.	Fourth term begins.
May 30.	Decoration Day.
June 12.	Examinations begin.
June 20.	Commencement day.
June 22.	Exhibition day.
June 23.	" "
June 24.	" "
June 30.	Institute closes.
September 1.	First term begins.
September 5.	Institute reopens.
September 12.	Anniversary of the Battle of North Point.
November 21.	Second term begins.
November 25.	Thanksgiving Day.
December 22.	Christmas holiday. Institute closes until January 2, 1900.

COMMITTEE

OF THE

Board of Commissioners of Public Schools

— ON —

POLYTECHNIC EDUCATION.

CHARLES H. GATCH, Esq., (*Chairman*).

W. EDWIN PEREGOY, Esq.

MICHAEL SHEEHAN, Esq.

HARRY K. MULLER, Esq.

BENJAMIN HISS, Esq.

JOHN H. HORST, Esq.

PRESIDENT HENRY F. NEW, *ex-officio.*

HONORABLE WILLIAM T. MALSTER, *Mayor, ex-officio.*

FACULTY.

SESSION 1899-1900.

JOHN W. SAVILLE, LL. B., *President*,
Engineering.

RICHARD H. UHRBROCK, Ph. B., *Vice-President*,
Higher Mathematics.

WILLIAM DUGENT,
Instructor in Pattern-making and Wood-turning.

WILLIAM G. RICHARDSON,
Instructor in Machine Construction, Chipping and Filing.

WILLIAM H. HALL,
Instructor in Electricity, Chemistry, Physics and History.

*THOMAS G. FORD,
Instructor in Carving and Carpentry.

JOSEPH F. McBEE,
Instructor in Algebra, Mensuration and Arithmetic.

J. WARD WILSON, M. D.,
Instructor in Anatomy, Physiology and Geography.

*GEORGE M. GAITHER,
Instructor in Carpentry.

* Graduates of this Institute.

WARREN S. SEIPP,
Instructor in Free-hand Drawing.

FREDERICK D. J. KAESSMANN,
Instructor in English and German.

WILLIAM A. JONES,
Instructor in Sheet Metal Work.

SAMUEL M. NORTH,
Instructor in English and French.

FREDERICK W. WILD,
Instructor in Sheet Metal Work.

SAMUEL P. PLATT,
Instructor in Mechanical and Architectural Drawing.

*HARRY R. RUSE,
Instructor in Geometry, Algebra and Arithmetic.

*WILLIAM P. GUNDRY,
Instructor in Bookkeeping and Arithmetic.

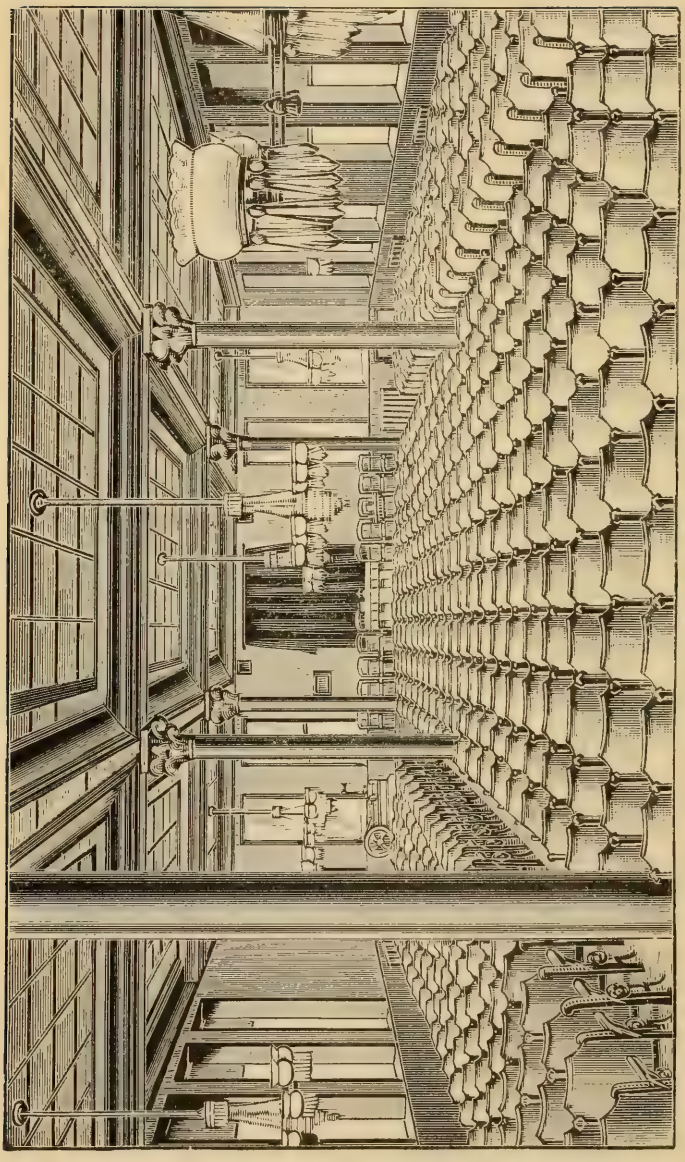
OLIVER BACHRACH,
Instructor in Grammar, Algebra and Arithmetic.

JOHN H. DEVALIN,
Instructor in Forge Shop.

*JOHN E. BROADBELT, JR.,
Instructor in Reading, Spelling and Writing.

---

* Graduates of this Institute.



THE ASSEMBLY ROOM.

Names of Students Alphabetically Arranged.

SENIOR CLASS—FIRST SECTION.

Allen, Chas. E. ..... 113 North Carrollton avenue.
Boettinger, Wm. G. ..... 1507 East Madison street.
Brent, Hugh W. ..... 1523 Linden avenue.
Crockett, Charles C. ..... 33 East Henrietta street.
Cushing, Wm. W. ..... 1531 Park avenue.
Focke, Roland S. ..... 1815 St. Paul street.
French, Harry B. ..... 1404 North Gilmor street.
Haferkorn, G. Calvert. ..... 1220 McElderry street.
Knapp, George A. ..... 432 West Conway street.
Lowenthal, Harry. ..... 1905 Linden avenue.
McCeney, George P. ..... 1415 Park avenue.
McCord, Wm. E. ..... 1624 McElderry street.
McCoy, Marion H. ..... 714 North Fulton avenue.
Mencken, Charles E. ..... 1524 Hollins street.
Owens, Charles T. ..... 2020 St. Paul street.
Schaun, Edw. L. ..... 705 North Howard street.
Vincent, Harold B. ..... Lutherville, Md.
Ward, Joseph A. ..... 929 Argyle avenue.

SENIOR CLASS—SECOND SECTION.

Brent, Harrison. ..... 1523 Linden avenue.
Clayton, Edward Goodnow. ..... 1916 Mt. Royal Terrace.
Cooke, Edward P. ..... 762 Dolphin street.
Davis, Arthur Councilman. ..... 600 Wyanoke avenue.
Demitz, Charles H. ..... 2324 East Baltimore street.
Harper, Robert B. ..... Upper Marlboro'.
Held, Charles W. ..... 1411 East Lanvale street.
Johnson, Ira. ..... 1620 Eutaw Place.
Lang, Walter B. ..... 1328 Mosher street.
Lucke, Charles C. ..... 513 North Wolfe street.
McCleester, John N. ..... 620 George street.
McDonnell, Blakeley A. ..... 16 Fustin avenue, Catonsville.
O'Conner, Edwin G. ..... 628 Dumbarton avenue.
Phipps, William Taylor. ..... 426 East Eager street.
Sedlacek, Emanuel J. ..... 1530 Ashland avenue.
Sternat, Frederick C. J. ..... 1135 Hamburg street.
Walter, Joseph R. ..... 138 North Broadway.
Whelan, William C. ..... 2029 St. Paul street.

INTERMEDIATE CLASS.

Allbutt, Lawrence G.....1335 North Gilmor street.
Blizard, J. Walter T.....1924 Garrett avenue.
Buttner, Walter B.....218 Prospect avenue.
Faust, Horace K.....224 South Broadway.
Fink, Harry.....815 North Broadway.
Groverman, Walter.....Ellicott City.
Harvey, Thomas E.....718 West Dolphin street.
Houck, Roy S.....1331 Argyle avenue.
Johnson, Samuel M.....104 Jackson Square.
Linck, Gustav F.....305 East Fayette street.
Masopust, John C.....900 North Bond street.
Minnick, Charles H.....107 East Lafayette avenue.
Moore, Morgan.....1529 Eutaw Place.
O'Conner, J. Hyde.....628 Dumbarton avenue.
Parsons, Galt F.....1623 North Calvert street.
Wansleben, Thomas O.....706 North Monroe street.
Wright, L. Chase.....1427 Aisquith street.

JUNIOR CLASS—FIRST SECTION.

Beehler, Joseph.....1503 West Lexington street.
Black, Samuel D.....White Hall, Baltimore county.
Childs, George S.....1222 East Townsend street.
Dehuff, Walter F.....1322 Homewood avenue.
Demitz, William M.....2324 East Lexington street.
Flaherty, Charles E.....2117 Gough street.
Hack, Arthur E.....1831 West Lanvale street.
Harris, Richard G.....2032 Linden avenue.
Hartlove, Harry H.....1108 North Stricker street.
Henneman, Milton P.....934 Milton Place.
Henthorn, Joseph T.....1417 West Pratt street.
Hess, Irving T.....1603 East North avenue.
Hoppert, Charles W.....1332 Ensor street.
Hoskins, John C.....2133 Fairmount avenue.
Kenney, Thomas H.....1100 Haubert street.
Keyworth, J. Ernest.....851 Park avenue.
Knecht, Edward W.....1510 North Gay street.
Kurdle, Joseph.....834 North Bond street.
Mealy, Charles A.....Mt. Washington.
Mehrling, Harry.....1631 West Mulberry street.
Mencken, John H.....2827 St. Paul street.
Moore, Albert G.....2100 St. Paul street.
Patterson, Alexander B.....2042 Park avenue.

Raidabaugh, John A.... ..... Sparrows' Point.
Siegle, John C..... ...1053 North Central avenue.
Stansbury, Charles E.....Grange P. O., Baltimore county.
Vincent, Sidney C.....Lutherville, Baltimore county.
Voneiff, George P..... .....1505 Linden avenue.
Walton, Ernest B.....1725 Bolton street.
Weatherlow, Guy P.....632 West Lombard street.
Weeks, John L.....336 Presstman street.
Williams, William L.....1114 Chesapeake street.
Yost, George K..... .....927 Milton Place.
Zimmerman, Albert.....2652 Pennsylvania avenue.

JUNIOR CLASS—SECOND SECTION.

Albers, Edward .....1831 West Baltimore street.
Balke, William M.....1147 North Fulton avenue.
Baxter, Charles A..... .....2027 East Pratt street.
Bordley, J. Thompson.....Old York road, Waverly.
Brown, Robert H.....814 Gorsuch avenue, Waverly.
Conway, Ernest C..... .....1334 West North avenue.
Cox, Rodman..... .....873 Hollins street.
Eilman, Charles F..... 719 Hanover street.
Fleckenschildt, John K.....330 South Broadway.
Fritz, Henry T.....222 South Ann street.
Gibson, Arthur W..... 2526 West Baltimore street.
Grant, Charles W.....1803 Frederick avenue.
Goob, Charles T..... . .....2131 Jefferson street.
Houff, William.....1829 West Baltimore street.
Hubbard, Carlisle L.... .....1007 N. Caroline street.
Ijams, Walter M.....2005 Guilford avenue.
Johnson, William.....204 South Bond street.
Kemp, William W..... .....1730 East Fayette street.
Louderman, John P..... ..... .203 South Broadway.
Lowndes, Andrew J..... ... 613 Parkwyth avenue.
Lynch, Ross E.....Rockdale, Baltimore county.
Makibbin, Donald R.... .... 819 Harlem avenue.
Malone, Allen L..... .....1011 West Lanvale street.
Mason, Bradford..... .....515 Friendship street.
Murray, William J.....2303 North Calvert street.
Onnen, John G... .....1024 Ridgely street.
Prentiss, John V..... ....17 West Twentieth street.
Reinhardt, Thomas W.....1739 Park avenue.
Rosenthal, William B..... .....1830 West Pratt street.

Samuel, Edward.....810 South Bond street.
Schiff, Aaron M.....Raynor avenue and Florence street, Calverton.
Schlacter, Louis S.....Raynor avenue and Florence street, Calverton.
Slingluff, Charles B.....North avenue and Eighth street.
Sweeny, James B.....16 Woodbury avenue.
Tapman, Walter H.....1283 William street.
Weiss, Arthur S.....2007 Gough street.
Wilds, Louis C.....1022 North Broadway.
Zipp, Philip H.....1440 North Eden street.

Baltimore Polytechnic Institute

ORIGIN OF THE INSTITUTE.

HISTORICAL SKETCH.

The foundation of the Baltimore Polytechnic Institute was laid in a resolution adopted by the Board of Commissioners of Public Schools of Baltimore City, April 24, 1883. The fact having been generally recognized that the inability of our young men to secure more lucrative employment was the result of an incomplete system of education, the founders of the Institute held that those who leave our public schools should go forth, prepared not alone for the walks of a professional or mercantile life, but for the occupancy of those equally remunerative positions requiring a knowledge of the mechanic arts. It was believed that the field of labor would thus be widened, and our young men the more thoroughly and quickly fitted for self-support.

The force of the claim appealing to all, the logical result was the action taken by the Council on the 20th of October, 1883. On that date, at the instance of the Honorable John B. Wentz, the Board of Commissioners of Public Schools was empowered "to establish a school for manual training, under such name or title as said Board shall select." The Board thereupon established the Baltimore Manual Training School.

Though the enrollment during the first few years of the Institute's history was far from pleasing, it was equally far from discouraging, being ascribed to the natural objection of parents to send their sons to the school until its permanency should have been established, and the success of manual training assured. Some time was required, but the most conclusive evidence in that direction was eventually produced, and lay in the desirable positions secured by those who were graduated. The effect upon the enrollment was as gratifying as it was prompt, the number of students increasing with such rapidity as to render necessary the erection of the present building.

Since the addition of the facilities afforded by the more ample accommodations of this building, the growth of the Institute has been uninterrupted, and the community has come to look upon it as one of the most progressive and most useful institutions in the city, it ranking at the present time with our old-established high schools in popularity and attendance.

The present name—Baltimore Polytechnic Institute—was given to the school in May, 1893, and at the same time the title of principal was changed to president, and that of first assistant to vice-president.

OBJECT OF THE INSTITUTE.

The object of the Institute is the education of all the faculties; to give instruction and practice in the use of tools, and such instruction as may be deemed necessary in mathematics, drawing and the English branches of a high-school course. The manual instruction shall include carpentry, wood-turning, pattern-making, chipping and filing, forge work, moulding, soldering

and brazing, the use of machine-shop tools, and such other instruction of a similar character as may be deemed advisable to add to the foregoing from time to time, it being the intention to divide the working hours of the students as nearly as possible equally between manual and mental exercises. This Institute differs from other high schools in omitting from its curriculum ancient languages; in devoting more time to mechanical drawing; and particularly in affording scientific instruction and actual practice in the care and use of tools.

The Institute does not teach trades. Its aim is more comprehensive; it lays the foundation for many trades, and at the same time recognizes the value of intellectual discipline. It is not assumed that every boy who enters the Institute will be a mechanic. Some will find that they have no taste for manual arts, and will turn into other paths—law, medicine or literature. Some who develop both natural skill and strong intellectual powers will push on through the Polytechnic Institute into the higher realms of professional life, and become architects, draughtsmen, electricians, engineers or scientists. Others will find their greatest usefulness and happiness in some branch of mechanical work, into which they will readily step when they leave the Institute. All will gain intellectually by their experience in contact with things. The general result will be an increasing interest in engineering and manufacturing pursuits, shrewder merchants, more intelligent mechanics, more skillful manufacturers, better lawyers, more competent physicians and more useful citizens.

DEPARTMENTS OF THE INSTITUTE AND REQUIREMENTS FOR ADMISSION.

The Institute is divided into two departments—the Institute proper, and the Preparatory Department. The completion of the prescribed course of the latter requires three years, the grades corresponding to the sixth, seventh and eighth grades of our grammar schools. Before graduation a like period must be spent in the Institute proper, wherein the academic studies taught are essentially the same as those pursued in the first, second and third-year classes of the Baltimore City College.

Admission to any one of the various classes is secured through a transfer from a grammar school, an English-German school, or the Baltimore City College, or as a result of satisfactorily passing a general examination in the studies of the grade just below the one the candidate desires to enter.

Both departments are under the government of the President of the Institute, His Honor the Mayor, and a committee consisting of seven members of the Board of Public School Commissioners.

No candidate who has been guilty of truant-playing or any other grossly improper conduct during the scholastic year, shall be examined or admitted without authority of the Committee on the Polytechnic Institute; and it shall be the duty of the President to report all such candidates to the committee for its action.

No student who has been removed from the Polytechnic Institute shall be readmitted unless by special action of the committee.

The fee for use of tools, materials and books for students who are children of residents or citizens of Baltimore has been abolished. The fee for non-resident students is $12.50 per quarter, in advance.

In estimating and accounting for scholars, principals of grammar or English-German schools have the same credit for those sent to the Polytechnic Institute as to the City College.

REPORT OF THE PRESIDENT.

BALTIMORE, December 31, 1898.

To the Board of Commissioners of Public Schools:

GENTLEMEN: As required by the regulations, I have the honor to submit the fifteenth annual report, setting forth the condition and needs of the Baltimore Polytechnic Institute.

DAY CLASSES.

Number of students on roll, December 31, 1897	554		
Number of students admitted during the year	356		
Total number in the Institute during the year		910	
Number withdrawn during the year	373		
Number graduated	29		
		402	
Number now on roll			508
Average enrollment during the year	484		
Per centage of attendance during the year	94.1		

NIGHT CLASSES.

Number on roll, December 31, 1897	728		
Number admitted during the year	708		
Total number in the Institute during the year		1,436	
Number withdrawn during the year	654		
Number graduated	22		
		676	
Number now on roll			760
Total number now on roll in day and night classes.			1,268

The fourteenth anniversary of the founding of the Baltimore Polytechnic Institute was celebrated on April 14, 1898, in the main hall by a literary and musical entertainment. Talent furnished solely by the students.

The twelfth anniversary of the Preparatory Department was celebrated on April 16, 1898, the buildings being open for inspection of the friends of the students.

On June 21, the twelfth annual commencement of the Baltimore Polytechnic Institute, also the second annual commencement of the night classes of the Institute, were held jointly at Ford's Grand Opera House. Reverend Llewellyn Stover Fulmer, the orator of the evening, delivered a fine address, advocating the great necessity for training, consequent on a course at the Baltimore Polytechnic Institute. His able remarks were received with great enthusiasm by the vast audience present. His Honor, the Mayor, Wm. T. Malster, presented the diplomas to the twenty-nine graduates of the day classes, also to the twenty-two graduates of the night classes. His Honor then gave an address of congratulation to the graduates, showing the advantages to be derived from a technical education which His Honor considered a real necessity of the present age, and each student acquiring it as adding to the country's need.

Honorable David E. Dick, after a fine address of commendation and congratulation to the recipients, presented the "Alumni Medal" and medal for "Proficiency in Mathematics" to Mr. Thomas Jefferson

Andrews, the "Saville Steam Engineering Medal" to Mr. Harry Rufus Ruse, the "Class '93 Electrical Engineering Medal" to Mr. Leo Bauersfeld, and to Mr. Alfred Cummins Hatch the medal for "Proficiency in German."

The Honorary Address was delivered by Mr. Harry Rufus Ruse, and the Salutatory Address by Mr. George Creamer Wilcox, and the Valedictory by Mr. Charles Raymond Gantz.

The triple expansion engine built by the graduating classes of '96, '97 and '98, and named by them the "Charles H. Gatch," in honor of the chairman of our committee, was placed on exhibition in the lobby of the Opera House, and was viewed, inspected and criticised by the immense audience present, and was pronounced by those competent to judge, a fine piece of marine engineering work, reflecting much credit upon the Institute, especially upon those engaged in its construction.

Since opening the night classes in October I have been compelled through want of space to refuse admission to more than seventeen hundred applicants. We need more space for the day, but far more for the night classes.

The Senior and Intermediate Classes with their instructors have visited Steelton and other manufacturing establishments around the city.

The class of '99 is building a 450-light dynamo, which, when completed, will be used to furnish current for lighting our buildings.

Owing to the fact that a sufficient number of students of the Institute did not take a course in the French language, we have omitted that study from our curriculum.

As a large number of boys are prevented from attending the Institute owing to their living at a great distance, I would recommend that at least four schools, composed of sixth, seventh and eighth grades, be established in different sections of the city, with curricula to correspond with that of the Institute. This has been tried in a number of other cities, and has given very satisfactory results.

We have fitted our forge shop with the Buffalo Forge Company's system of "Down Draft Forges," and since Mr. Devalin has been in charge our students in that shop are doing work equal to any school in the country.

Mr. Wm. P. Gundry and John E. Broadbelt, Jr., graduates of the Institute, have been appointed instructors; the former to succeed Mr. Ralph L. Williams, and the latter to the position formerly occupied by Mr. Wm. P. Gundry.

A vacancy in the faculty was caused by the decease of Ralph Leon Williams, who was lost in the Burgogne disaster of July 4, 1898.

Mr. Williams had been a student in the Institute prior to his appointment as an instructor, and the services rendered the school during both connections were most faithful.

I take this opportunity to testify to his excellent qualities as a man, a scholar, and a teacher; and to the loss the Institute sustains in his death.

The faculty of the Institute deserve mention for their zeal and devotion to duty, and their readiness to aid the President at all times.

To the Committee on Polytechnic Education, and the members and officers of the Board, and to His Honor the Mayor, I desire to return thanks for their help and kind consideration.

I enclose herewith estimates for the year 1899.

Very respectfully,

JOHN W. SAVILLE, *President.*

Estimates for the Year 1899.

Pay-roll for day instructors	$24,653 00
" " night "	4,100 00
Wood, iron, steel, brass, copper, tin, solder, etc., for lessons	900 00
Printing, commencement, catalogue, postage, and furniture repairs	540 00
Repairs to boilers, machines and tools	385 00
Wood and coal for power boilers and for heating buildings	650 00
Instruments, drawing paper, ink and colors	780 00
Gas and electric light	400 00
Apparatus and chemicals for chemical laboratory	261 00
" " material " physical "	225 00
" " " " electrical "	430 00
Painting old and new buildings	275 00
Stationery, ink, slates, black-boards, etc	360 00
Scientific books	200 00
Forty tables for free-hand drawing-room	800 00
Rebinding old books	90 00
Repairs to buildings	100 00
Incidental expenses	210 00
Total	$35,399 00

THE COURSE OF STUDY.

The course of study covers three years, and the school time of the student is about equally divided between mental and manual exercises. It is similar to the usual high school course, with the exception that the study of ancient languages is replaced by instruction in drawing and in the care and use of tools. One hour per day is given to drawing, one hour and a half to shop work, and two hours and a half to academic study.

The course of study embraces five parallel lines, as follows:

First. A course in Mathematics, including Algebra, Arithmetic, Book-keeping, Geometry, Mensuration and Trigonometry.

Second. A course in Science, including Chemistry, Geography, Physics, Physiology, Steam Engineering and Electricity.

Third. A course in the English, French and German Languages and Literatures, and in History.

Fourth. A course in Free-Hand and Mechanical Drawing and Designing.

Fifth. A course in Tool Instruction, including Carpentry, Wood Carving and Turning, Pattern Making, Moulding, Forging, Soldering, Brazing, Vise and Machine Shop Work, and the care and management of steam engines and boilers.

CURRICULUM.

JUNIOR YEAR.

Algebra	3	Physics	2
Double-entry Book-keeping	2	Physiology	2
English	3	Drawing	5
Geometry	2	Shop Work	9
History (English)	2		

INTERMEDIATE YEAR.

English	3	Geometry	4
History (Roman)	2	German	3
Physics	2	Drawing	5
French or Electricity	2	Shop work	9

SENIOR YEAR.		A CLASS.	
Electricity or French	2	Review of Mathematics	4
English Language	2	Steam Engineering	2
German Language	2	Trigonometry	3
History (Grecian)	1	Drawing	4
Physics and Chemistry	2	Shop work	8

I.—COURSE IN MATHEMATICS.

The studies of this course are pursued both on account of their close association with Physics, Machine-construction, Engineering, etc., and for the purpose of developing the reasoning powers.

ALGEBRA.—*Ray's Higher.*

JUNIOR YEAR.

The more difficult quadratics, the progressions, binominal theorem, indeterminate coefficients, series, continued fractions, computing and use of logarithms.

BOOK-KEEPING.—*Montgomery's.*

JUNIOR YEAR.

The theory of single entry, followed by practical work. The class is divided into a number of firms, actual business transactions being engaged in, and recorded in the various books.

SENIOR YEAR.

The subjects of single and double entry are explained and illustrated. Each student is required to complete several sets in single and double entry, using principal and auxiliary books. During the latter part of the year, practical work is done, the students engaging in business with each other, and keeping a complete record of all transactions. They are also thoroughly drilled in the use of commercial paper and business forms.

GEOMETRY.—*Wentworth's Plane and Solid.*
Phillip and Fisher's Plane and Solid.

JUNIOR YEAR.

The first four books, consisting of definitions, straight lines, angles, triangles, polygons, ratios and proportions, the circle, comparison of polygons, areas of polygons, and problems of construction.

INTERMEDIATE YEAR.

A review of the former year's work and the study of lines and planes in space, polyhedrons, cylinders, cones and the sphere.

TRIGONOMETRY.—*Wentworth's Plane.*

SENIOR YEAR.

The functions of the acute angles, the right triangles, oblique triangles, numerous problems and exercises.

II.—COURSE IN SCIENCE.

The course in science has for its purpose the direct teaching of useful knowledge, and the mental training which is derived from such instruction.

CHEMISTRY.—*Remsen's Elements of Chemistry.*

The chemical work consists of experiments in the laboratory from Remsen's Elements of Chemistry, performed by each student separately, written report upon the work done being made to the instructor, in which a full description of the experiments must be given and all reactions described and explained by equations. Recitations are also required, Remson's Elements being used as a text book.

PHYSICS.—*Gage's Elements of Physics.*

The study of physics consists of recitations and laboratory work. Experiments are selected from text book or arranged by the instructor and performed by the student at his table in the laboratory. Whenever a law of physics may be verified, measurements must be made, and such measurements given in the written report made to the instructor. Any attempt at forcing results to correspond to the law is not tolerated; but such discrepancies must be explained, and if possible remedied. Especial attention is given to the laws of machines.

ELECTRICITY AND MAGNETISM.—*Thompson's.*

The course in electricity is designed to impart to the student a general knowledge of the elementary principles of electricity; and also to give as much practical work as possible in measurements, wiring, and in the construction of electrical apparatus.

INTERMEDIATE YEAR.

The work of this class is mostly theoretical, in which students are drilled in the laws of electrical action, and preparing them for the more practical work of the senior class. Nearly half the time is devoted to laboratory practice in verifying the statements made in the lectures and text book.

SENIOR YEAR.

The preliminary theoretical work having been done in the intermediate year, the senior class devotes most of its time to the study of the various practical uses of electricity.

Special attention is given to commercial light and power supply. Special lessons are also given in dynamo, motor and line testing.

About one-half the time is devoted to laboratory work.

Students in this class are now building a 400-light dynamo, General Electric pattern, 4-pole, 125 volts, and are given practical work in wiring various rooms for electric lights.

PHYSIOLOGY.—*Hutchinson's Physiology and Dulany's Human Body.*

The student is impressed with the importance of this study, and is shown that through it he can acquire a knowledge of the mechanism and the laws which govern that most perfect, though complex machine, the human body.

The pernicious effects following cigarette smoking and the use of alcohol and narcotics are clearly and frequently presented.

During the entire course the students are brought into immediate contact with specimens of the various parts of the human body which are treated of in the text book, both in normal condition, and in condition as effected by the use of alcohol; frequent dissections on the inferior animals are made for instruction, and comparison and demonstrations made from alcoholic, dried and fresh specimens.

Frequent lectures are given upon the treatment of incised and other forms of wounds, and methods demonstrated that are calculated to induce healing in the shortest time. Theoretical as well as practical instruction in "First Help to the Injured" is continued throughout the entire course, the students being required to practice the lessons

given, in arresting hemorrhage, resuscitation from fainting, drowning or asphyxiation from gas, extemporing splints in case of fracture, and methods of carrying injured persons.

JUNIOR YEAR.

The work embraces a study of the functions of the organs of the human body, the skeleton, the skin, clothing, food, digestion, circulation, respiration, the nervous system, narcotics and their action on the body, mind and character.

INTERMEDIATE YEAR.

The work of the previous year is reviewed, and after a more comprehensive treatment the study is completed.

STEAM ENGINEERING.

The course in steam engineering embraces the theory and development of the steam engine, boilers and their appliances, heat, combustion, evaporation, indicator, diagrams, valve, valve motion and cut-offs, condensers and pumps, fire and water-tube boilers and their fittings, paddle and screw propulsion.

III—COURSE IN LANGUAGE AND LITERATURE.

This course is arranged to give the student such knowledge of the English language and literature as will enable him to express himself clearly, forcibly and with elegance.

COMPOSITION.

JUNIOR YEAR.

Instruction is given in the processes of invention, essentials of good diction, sentence structure, paragraph division and punctuation.

INTERMEDIATE YEAR.

Careful study is made of the qualities of style and the principles of descriptions and narratives.

SENIOR YEAR.

The students are required to write critical essays on the works of representative men, of English and American literature.

ENGLISH.

JUNIOR YEAR.

The common errors of speech are pointed out, and a special drilling is given in the correct use of English. Attention is paid to matters of most essential consequence to the student and such as will best serve to prepare him for the further study of language. The student is acquainted with the principles and relations that underlie the philosophy of language.

INTERMEDIATE YEAR.

The growth and progress of English and American literature is traced from the age of Chaucer to the age of Tennyson; the law and nature of its development are explained; all the great influences are noted; only such writers as are of the most importance to the student are studied.

SENIOR YEAR.

A brief history of language is given. A careful study is made of taste, its elements, characteristics and standard; pleasures of the imagination and their sources; sublimity and beauty of writing; wit, humor and ridicule; figures, their use and abuse; style, its varieties and essentials; and criticism. Extemporaneous speaking is taught, in connection with which the principles and essentials of argument are explained.

GERMAN.

The aim in this course is to teach the student sufficient to enable him to read ordinary prose composition.

INTERMEDIATE YEAR.

Exercises in grammar and composition. Conversational exercises.

SENIOR YEAR.

Exercises in composition and grammar from Otis' Grammar. Review. Translation of Shiller's Neffe als Onkel.

HISTORY.

JUNIOR YEAR.

Montgomery's History of England.

INTERMEDIATE YEAR.

Allen's History of Rome.

SENIOR YEAR.

Myers' Eastern Nations and Greece.

TEXT-BOOKS.

Algebra—Ray's Series.
Wentworth's Series.

Geometry—Wentworth's Plane and Solid.
Phillips and Fisher's Plane and Solid.

Trigonometry—Wentworth's Plane and Spherical.

Book-keeping—Montgomery's Modern Single and Double Entry.

English Language—Whitney and Lockwood's English Grammar.
Sheldon's Advanced Language Lessons.
Buehler's Exercises in English.
Hill's Rhetoric.
Lounsbury's History of English.

English Literature—Shaw's New History.

German—Otis Elementary German.
Brandt's German Grammar.
Schiller's Der Neffe Als Onkel.

History—Eggleston's History of the United States.
Montgomery's Leading Facts in English History.
Myers' Eastern Nations and Greece.
Allen's History of Rome.

Physiology—Dulany-Martin's (Human Body).
Hutchison's.

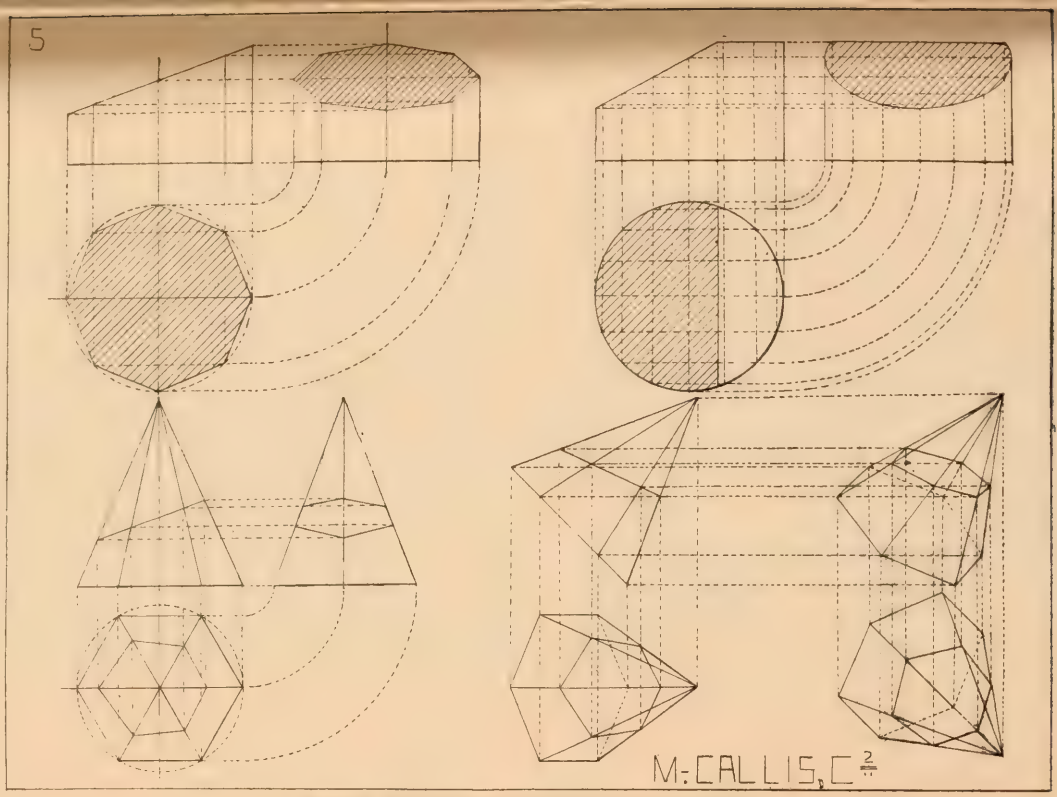
Physics—Peck-Ganot's Natural Philosophy.
Gage's Elements of Physics.

Electricity—Thompson's Electricity and Magnetism.

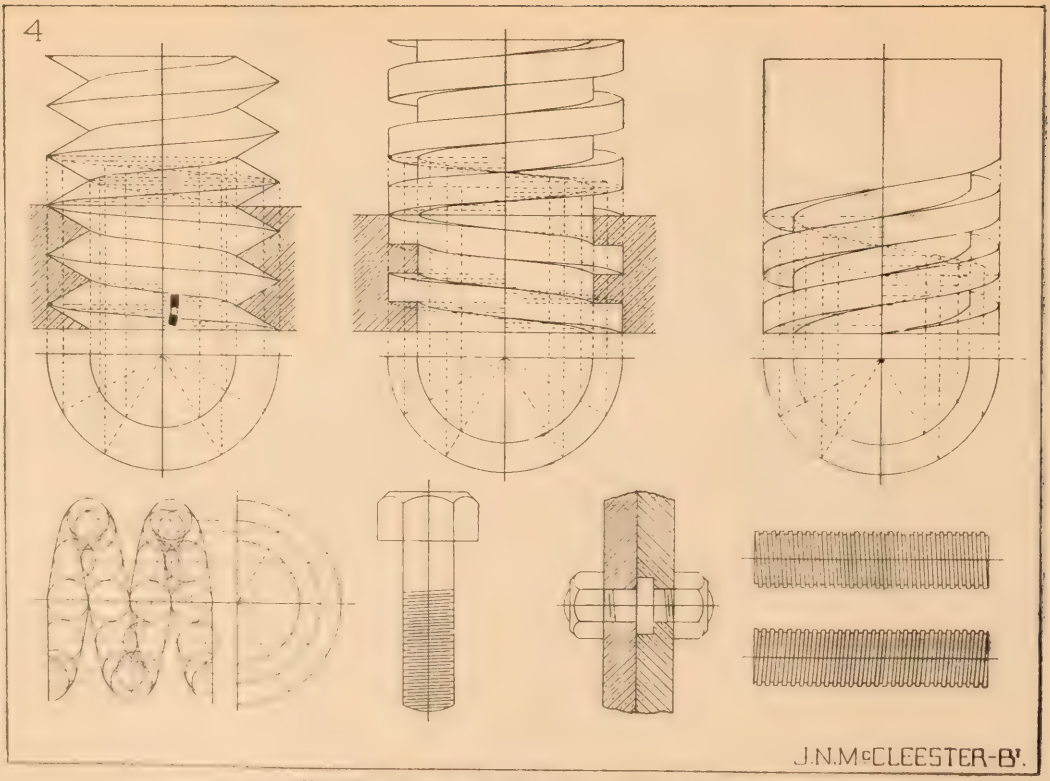
Chemistry—Remsen's Briefer Course.

Steam Engineering—Shock on Steam Boilers.
Seaton's Marine Engineering.
Holmes' Steam Engine.

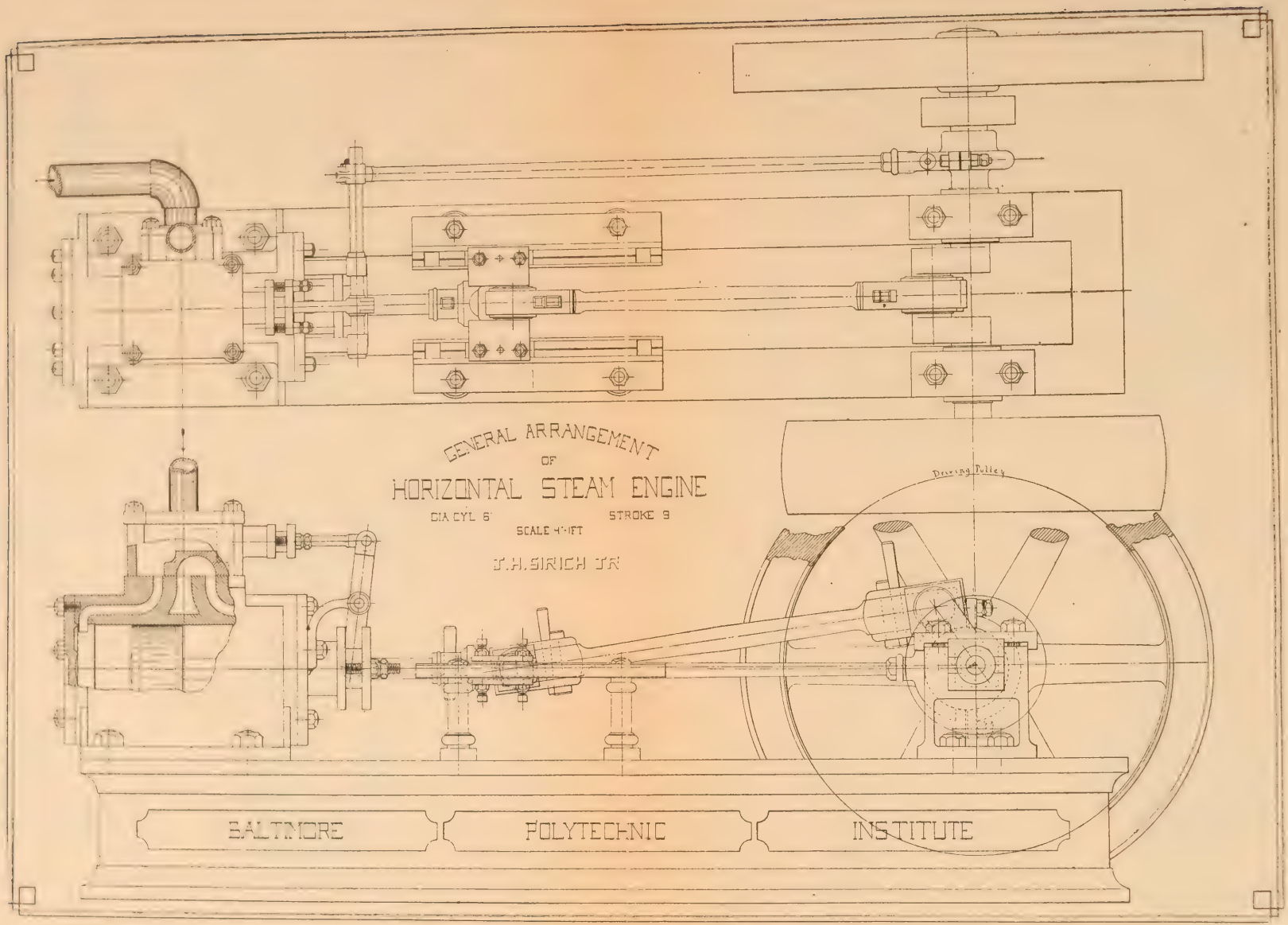
Miscellaneous—Rose's Complete Practical Machinist.
Rose's Pattern Maker's Assistant.
Byrne's Metal Worker's Assistant.
Thompson's Electricity.



FIRST YEAR MECHANICAL DRAWING.



SECOND YEAR MECHANICAL DRAWING.



THIRD YEAR MECHANICAL DRAWING.

IV.—COURSE IN MECHANICAL DRAWING.

The mechanical drawing-room is furnished with individual combination drawing tables, in which each student is provided with private lockers for his materials, including his drawing board.

In arranging the course in mechanical drawing the aim has been to impart to the student as much knowledge of the *principles* of the subject as time will permit.

Personal instruction is given to each student, besides the regular class lectures, which are given in as clear and practical a form as possible, *from models*. Students are required to use these models in making their drawings, and are never permitted to copy from the flat.

During the year, at certain stated times, reviews of the work are given to refresh the students' minds.

COURSE OF INSTRUCTION.

FIRST YEAR.

Five Fifty-Minute Periods Per Week.

Description, preparation and testing of drawing instruments and materials. Graphic solutions of geometrical problems, the problems being selected with special reference to draughting.

Simple projections.

Intersection of solids.

Development of surfaces.

Simple details of machines.

Free-hand pencil sketching of machine details (with dimensions) from models; from which sketches drawings are required to be made, each student working from his own sketches and the models.

SECOND YEAR.

Five Fifty-Minute Periods Per Week.

The construction of various kinds of curves.

Intersection of solids.

Conic sections and development of surfaces.

The construction of various kinds of screw threads.

Pulleys and belts.

Gearing, in which the involute and cycloidal tooth are constructed and applied to spur and bevel gears.

Construction of cams.

Free-hand sketching of machine details, with dimensions, from models: from which sketches drawings are required to be made, each student working from his own sketches and the models.

Quarterly each student is required to draw a plate at home, showing the application of the different principals of work already explained.

THIRD YEAR.

Four Fifty-Minute Periods Per Week.

Elements of mechanical motions; sketching, measuring and drawing of details, and arrangements of machinery from models; from which sketches a complete set of working drawings are required to be made. Quarterly, each student is required to draw a plate, at home, showing the application of the diffierent principals of work already explained.

Tracing and blue printing.

OPTIONAL.

Engineering drawing, civil, mining and topographical.

SCHEDULE OF SHOP WORK.

FIRST YEAR.

Carpentry, 15 weeks; Wood-turning, 5 weeks; Forging, 20 weeks.

SECOND YEAR.

Pattern-making, 15 weeks: Moulding, 5 weeks; Chipping and Filing, 20 weeks.

THIRD YEAR.

Machine shop work, 40 weeks.

CARPENTRY.

The course of instruction consists of the study of wood; its structure, composition, drying and warping properties; the defects in and kinds of wood; also its value and the method of measuring it. The care and use of tools, and construction of the following: Square prism, sawkerfing, trenching, chamfering, centre lap joint, corner lap, half lap, dove tail, open mortise and tenon, miter mortise and tenon, plain nailed box, dove tails and chess board.

WOOD-CARVING.

For those who have completed preparatory course in carpentry.

FIRST YEAR—*Twenty Weeks.*

Care and use of tools, and fourteen progressive lessons, and designing.

WOOD-TURNING.

FIRST YEAR—*Five Weeks.*

Principle of the lathe explained.

Names of parts of lathe, and names and uses of various finishing tools that belong to the lathe. A course of turning consists of sixteen lessons between centers, and eight lessons in chuck work.

Frames of part of lathe. Care and use of turning tools. Lectures.

1. Cylinder between centres.
2. Cone between centres.
3. Step cylinder between centres.
4. Geometrical piece in angles.
5. Inverted cones between centres.
6. Bolt.
7. Geometrical piece.
8. Geometrical piece in round.
9. Geometrical piece, table leg.
10. Geometrical piece in round.
11. Chuck work.
12. Chuck work.
13. Chuck work.
14. Vase.
15. Goblet.
16. Vase.
17. Vase.
18. Vase.
19. Sphere.

LESSONS IN WOOD TURNING.

COURSE IN FORGE SHOP.

FIRST YEAR—*Twenty Weeks.*

LECTURES.

Forge—Mechanism and care of forge and smith's tools, preparation of forge for fire, building and managing the fire, heat of fire, fluxes.

Tools—Anvil, sledge, hand hammer, square tongs of various kinds, hot chisel, cold chisel, swedges, fullers, flatters, formers, heading tools, mandrels.

Forging—Forge square iron out of round, round out of square, octagonal out of square, hexagonal out of round; head up a rivet, head up a bolt.

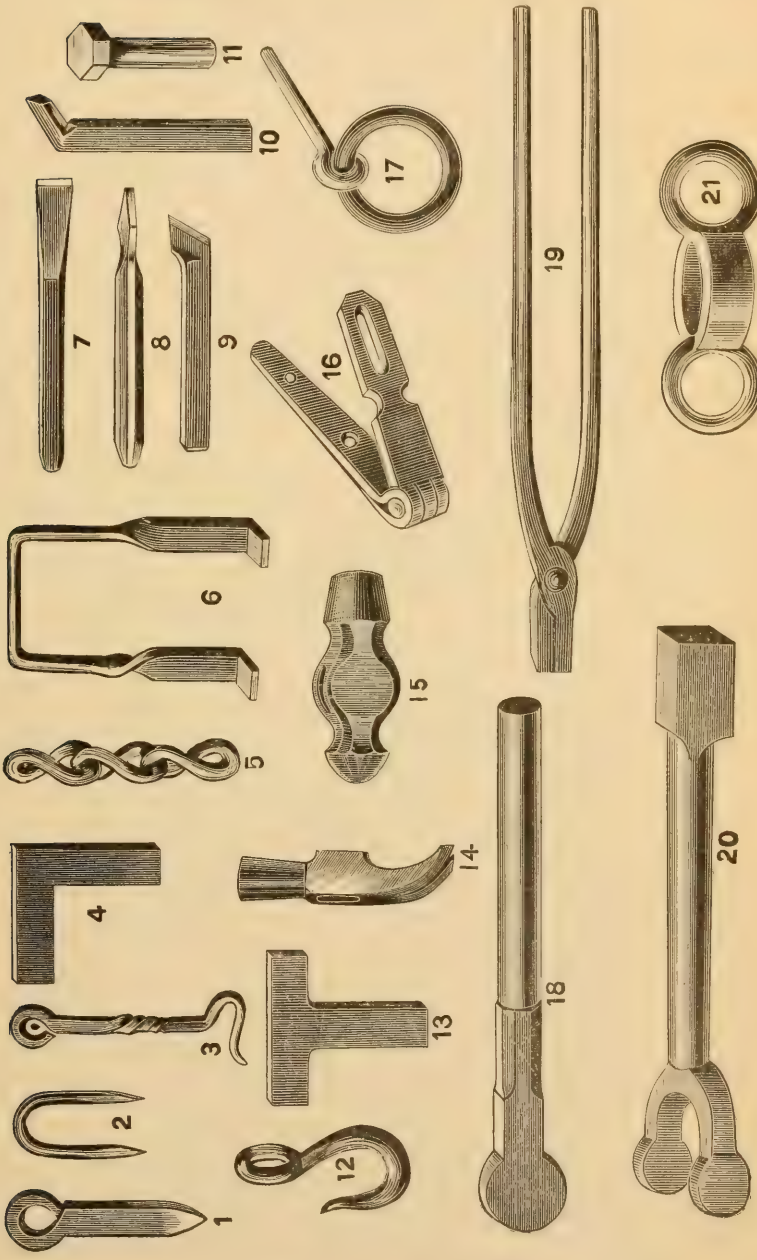
Bending—Turn a piece of flat iron to a right angle, the corners being brought square and neat; turn a flange, bend an eye, make a square out of a piece of flat iron.

Welding—Make a jump weld, weld two pieces together forming a cross, a scarf weld, a pipe weld, bend and weld washer of flat iron, make a round ring out of a piece of square iron, weld a square, make four or five links of a chain out of three-eighths round iron, weld iron to steel.

Tool Making—Forge and finish a set of tools, a wedge centre punch, flat-nose caulking tool, cape chisel, cold chisel, a drift, heading-tool callipers, straight edge, T square, hand hammer, set of drills, set of lathe tools, make and finish a (cross pene) fitter's hammer, a (cross pene) chipping hammer, a (straight pene) chipping hammer, a (round pene) blacksmith's hammer.

Tempering—Theory of tempering, temperatures and colors, water, oil, etc. Temper chisels, turning and boring tools for wood and metals.

Note.—Students while in the forge shop will be required to make the tools used by them in chipping and filing and machine shop.



LESSONS IN FORGE WORK.

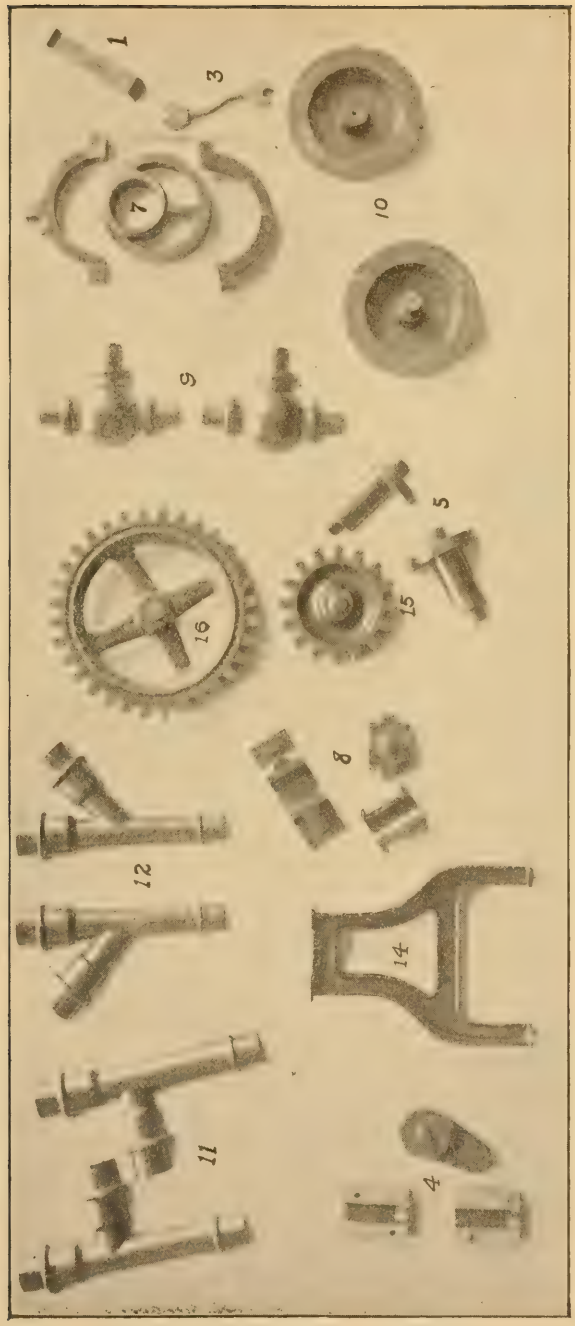
PATTERN-MAKING.

SECOND YEAR—*Fifteen Weeks.*

1. Gib.
2. Wrench.
3. Wrench.
4. Crank.
5. Gland.
6. Lathe glide.
7. Eccentric.
8. Pillow block.
9. Globe valve.
10. Sheave pattern.
11. T Branch pipe-fitting.
12. Y Branch pipe-fitting.
13. Leg pattern.
14. Pinion wheel.
15. Large wheel.

Lectures. Tools used in pattern-making-lathe. Elementary principles, methods of construction, of preventing warping of patterns; allowance for shrinkage, "draft" explained and principles illustrated by moulding process.

Note.—Students of the second year class are required to make the patterns of mechanical the object to be built during their graduating year.



LESSONS IN PATTERN MAKING.

VISE WORK.

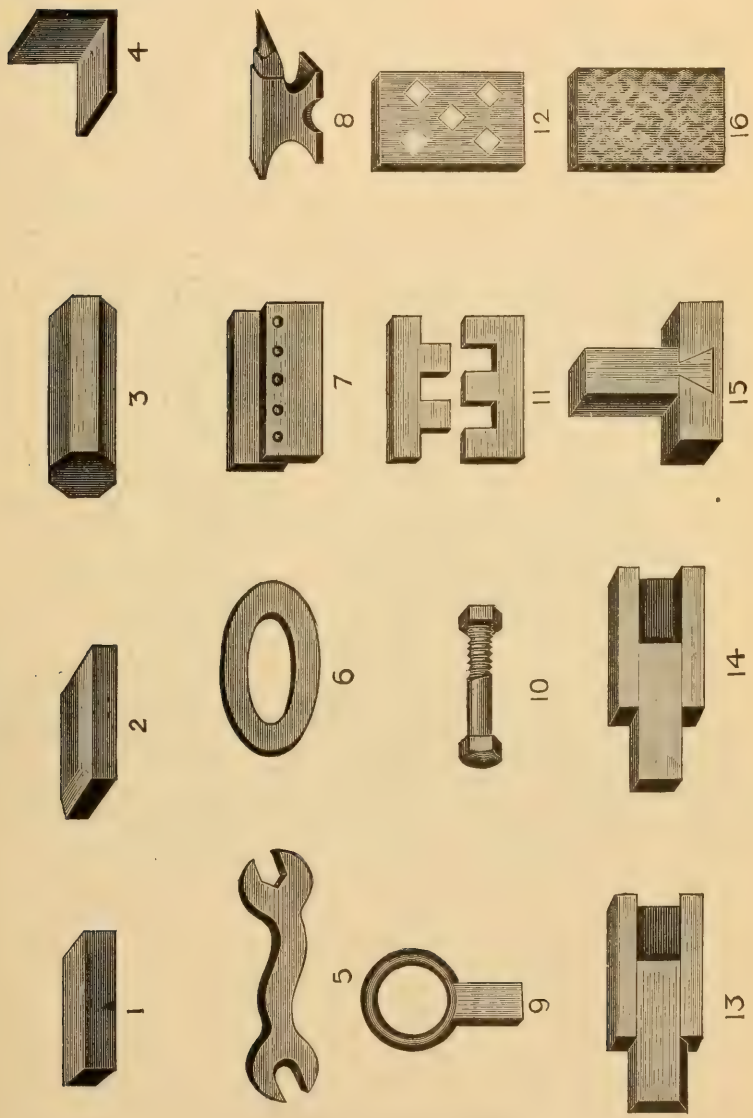
SECOND YEAR—*Twenty Weeks.*

Care and use of tools. Lectures.

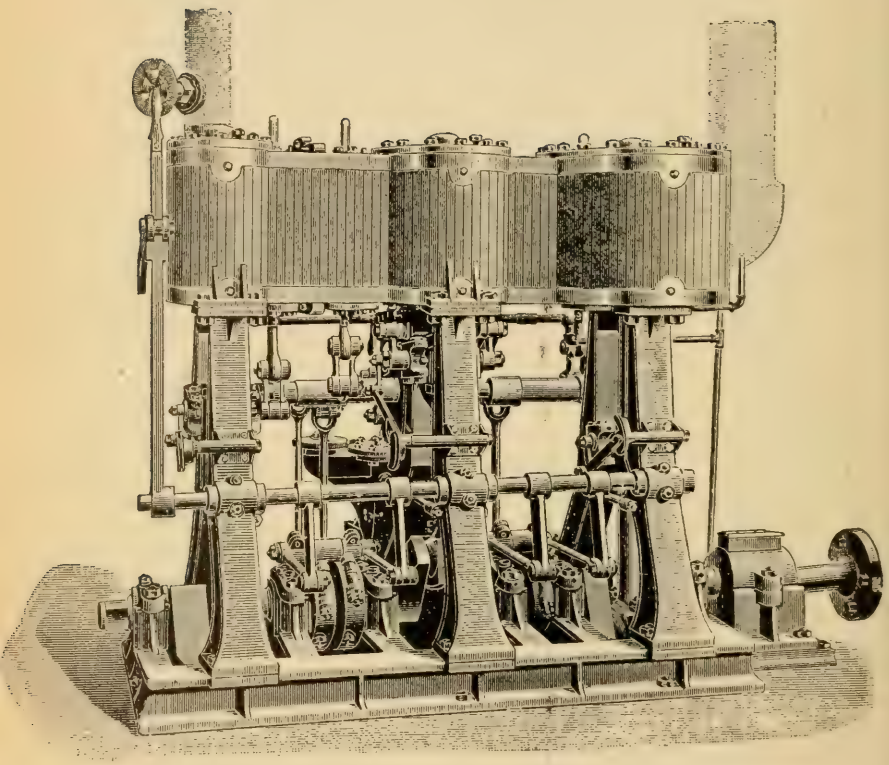
1. Various chisels and chipping.
2. Rectangular block with champered edges.
3. Octagonal prism.
4. Angle piece.
5. Wrench.
6. Eclipse.
7. Riveting.
8. Anvil.
9. Circle and segment.
10. Use of dies and taps, threading bolt and nut.
11. Interlocking piece.
12. Inlaid piece.
13. Dovetail slide.
14. Open slide.
15. Dovetail.
16. Scraped surface.

THIRD YEAR—*Forty Weeks.*

Machine shop work.
Twist drill.
Hand reamer.
Rose bit.
Set taps, taper plug and bottom.
Spur gear.
Bevel gear.
Worm gear.
Spiral gear.
Stub end, strap and brasses.
Machining test specimens for testing machine.
Name, uses and care of hand and machine tools. Lectures.
Finish up a design for graduation.



LESSONS IN VISE WORK.



"THE CHARLES H. GATCH."
Triple Expansion Marine Engine. 100 I. H. P.
First Section finished by Class '95; Second Section by Class '96;
Third Section by Class '97 and '98.

EQUIPMENT OF THE INSTITUTE.

SCIENCE DEPARTMENT.

ELECTRICITY.

The electrical equipment of the Institute is selected to give practice to the student in verifying the laws and making tests of various kinds and of a practical character.

Many of the instruments are of two grades, the preliminary work being done on the cruder and stronger kind, and then, when the student has learned to manipulate properly, the finer and more expensive ones are furnished.

The laboratory and lecture room are both lighted by electricity, a switchboard controlling the lights in the laboratory, giving the student practical illustrations of switchboard work.

Galvanometers, bridges, voltmeters, ammeters, resistance boxes, dynamos, motors, accumulators, induction coils, transformers, wattmeters and such appliances are among the apparatus.

The department will shortly have added to it a 400-light dynamo and an automatic cut-off engine to drive it, both of which are now being built by the students.

CHEMICAL AND PHYSICAL LABORATORY.

Room lighted by electricity and fitted with working tables of cypress wood, accommodating at one time twenty-three students working separately, or forty-six working in pairs. Tables are fitted with water, gas and waste bowls. The tops are slate and each division, designed for one student, is constructed with four lockers, four drawers and a double rack, on which reagents are kept. Allowing two students to each locker and drawer, 184 students can be accommodated during the week. The chemical equipment consists of such appliances and glassware as are necessary for the experiments, each student being allowed test tubes and rack, beakers, evaporating dishes, etc., and the larger and more expensive apparatus furnished as needed.

The physical experiments are performed with instruments from the best makers, and are used to illustrate the most important phenomena and laws of mechanics, hydraulics, pneumatics, acoustics, thermics and optics.

Lecture room is lighted by electricity, and is fitted with opera chairs arranged in four tiers of ten each.

The lecture table contains a pneumatic trough and waste bowl, and is supplied with water and gas.

Capacity, 50 students at one time, or 300 per day.

ANATOMY, PHYSIOLOGY AND HYGIENE.

Lecture and recitation room fitted with forty folding opera chairs, arranged in four tiers, giving each student plain view of all demonstrations.

One set anatomical charts.

One physiological manikin.

One plate microscopic sections.

One human skeleton, articulated by the students.

One human skeleton, articulated in France, for teaching purposes.

Alcoholic specimens and preparations illustrating effects of alcohol, tobacco, etc., upon the internal organs.

Five large microscopes, microtome with freezing attachment, mounted sections, mounting material and apparatus for preparation of microscopic slides.

One large demonstrating table.

A museum of natural history has been commenced, most of the specimens having been collected and donated by the pupils.

Apparatus for the demonstration of many of the physiological processes.

Apparatus for practical instruction in "First Help to the Injured."

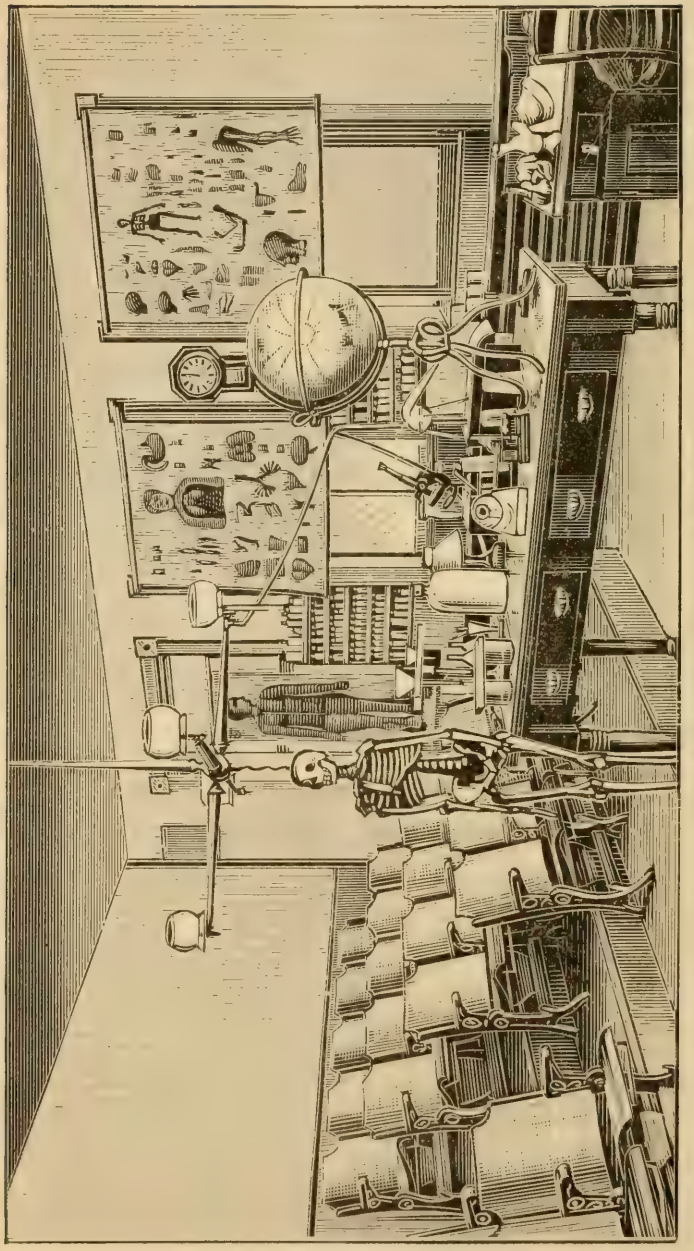
GEOGRAPHY.

One "Yaggy's" geographical study chart, with profile map of the United States.

Wall maps of Europe, Asia, Africa, United States and Maryland.

One large, full-mounted terrestrial globe.

One large relief globe.



ANATOMY, PHYSIOLOGY AND HYGIENE.

GEOLOGY.

A collection illustrating scale of hardness.

A collection illustrating the scale of fusibility.

A collection for microscopic study.

A collection of the more common minerals, rocks and ores, and geological charts.

A collection illustrating the various fuels.

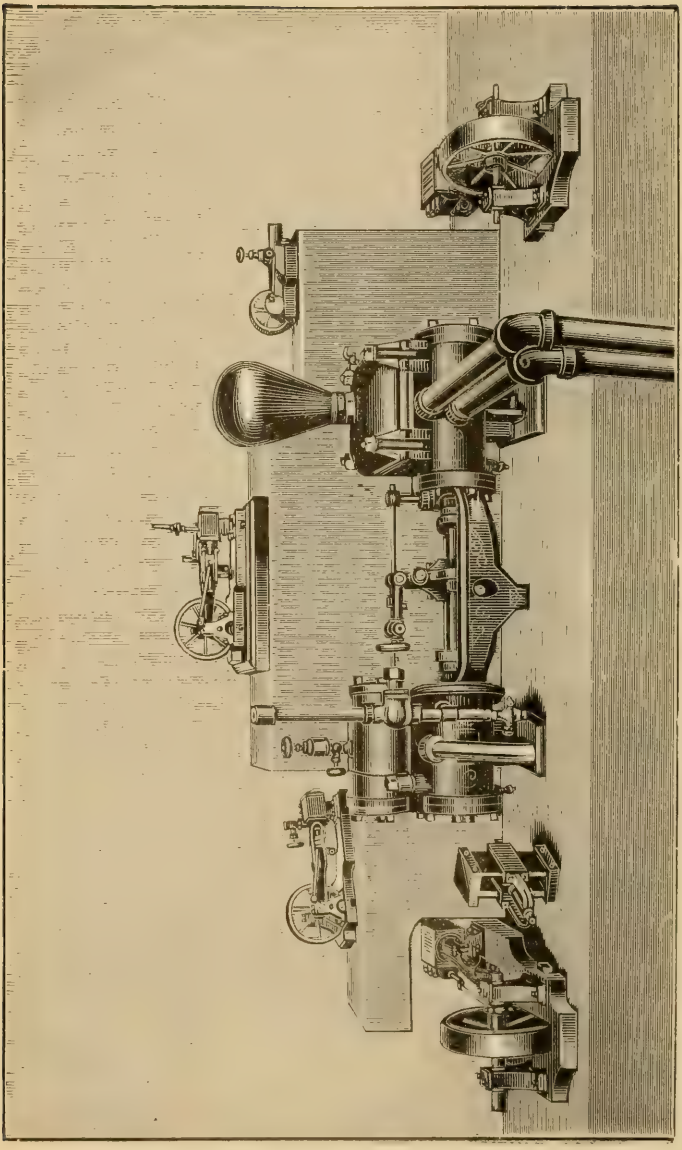
A collection illustrating the various building materials.

LIBRARY.

The Library is furnished with 2,039 volumes of scientific and English literary works and reports, besides nearly all the American scientific weeklies and monthlies, for circulation among the instructors and students.

DEPARTMENT OF STEAM ENGINEERING.

This department is fitted up with forty lecture-room chairs. It contains a working model of the Worthington Duplex Steam Pump, a model of the Campbell & Zell boiler, both of which were presented to the school by the patentees, a number of steam gauges and safety valves, a hydrometer, a working model of a slide valve engine (built by the students), a Tabor steam engine indicator, a pantograph, a Coffin planimeter and specimens of the different kinds of riveted boiler plates.



"The Simon L. Felber." Blake Steam Pump.
Built by Class '91.

FIRST DRAWING ROOM.

FREE HAND.

Drawing tables for 50 students at one time, or 300 per day. Drawing boards for 300 students, models and copies, plaster cast of the human body, and ornaments.

Each pupil is supplied with models for individual study.

SECOND DRAWING ROOM.

MECHANICAL.

Drawing tables for 50 students at one time, or 300 per day. Drawing boards, T squares, triangles and instruments for 300 students, models of fundamental, simple and complex forms.

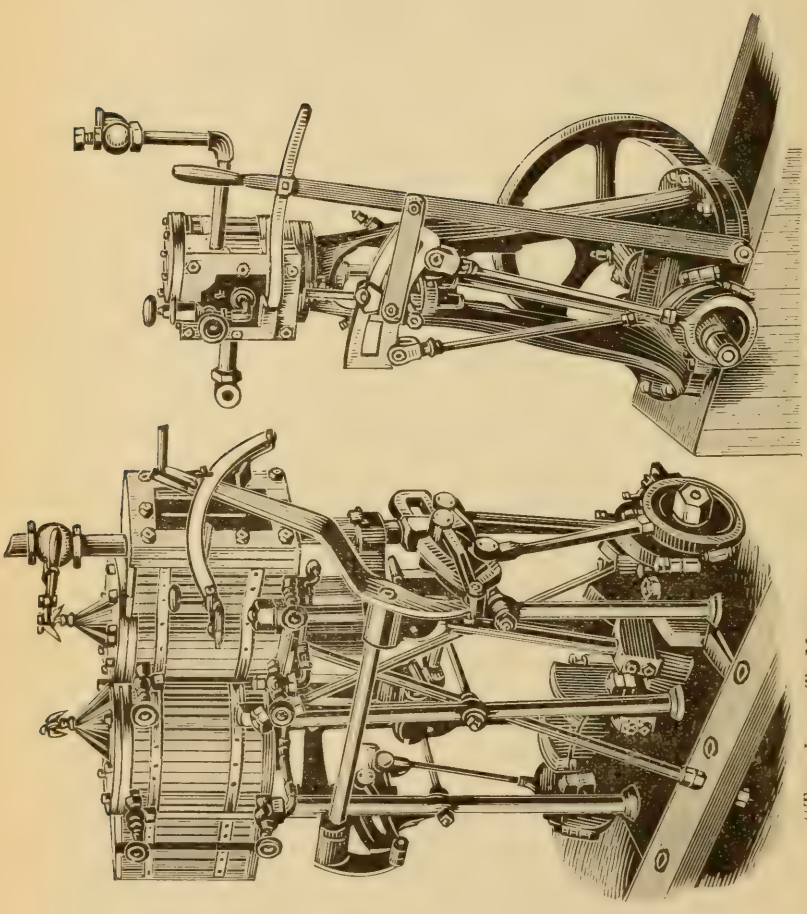
MECHANICAL DEPARTMENT.

FIRST—WOOD-WORKING SHOPS.

Twelve (double) carpenters' benches, for 24 students at one time, or 144 per day, five small turning lathes, five scroll saws and one grindstone, with tools for 144 students. The bench tools consist of a jack plane, smoothing plane, fore plane, cross-cut saw, rip saw, tenon saw, hand hammer, mallet, brace, six bits (assorted sizes), bevel, two-foot rule, six chisels (assorted widths), oil stone, drawing knife, spoke shave, try square, brad awl, punch, chalk line, oil can, hand brush, bench hook and note-book and pencil.

SECOND—WOOD-WORKING SHOP.

Twenty-seven (double) carpenters' and cabinet-makers' benches for 54 students at one time, with tools, as in last-named shop, for 172 boys per day.



"THE JOHN T. MORRIS."
Compound Marine Engine, 65 I. H. P.
(Built by Class of '91.)

Small Yacht Engine.
3 I. H. P.

ARMORY.

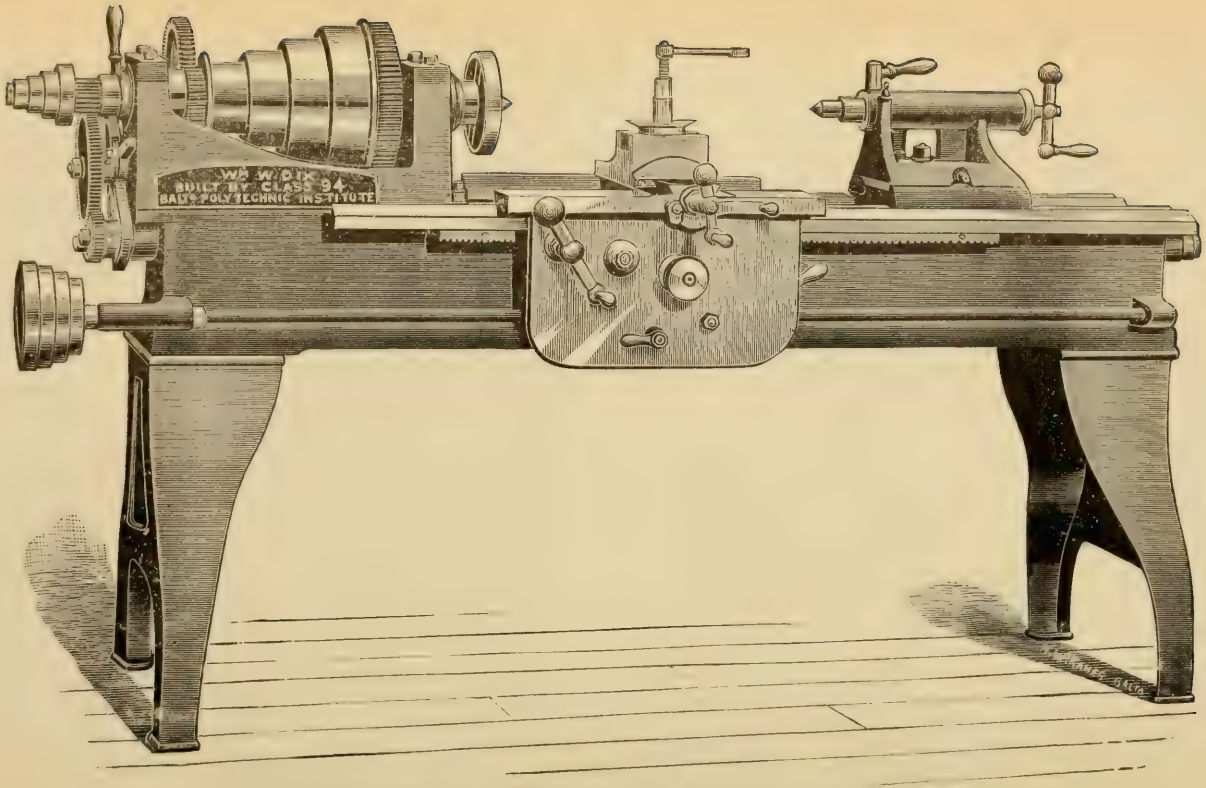
The armory contains 75 muskets and 75 short rifles for exercise in the manual of arms.

PATTERN-MAKING SHOP.

The pattern-making shop is on the south side of the second floor. Its dimensions are 20x64 feet. The equipment consists of twelve double benches and two single ones, with six drawers, and a double tool case to each double bench. Each drawer contains one set of paring chisels and a set of plane bits. Each tool case contains one set of tools for either pattern-maker or carpenter. The department is supplied with one hand saw, one scroll saw, eleven wood-turning lathes, one trimmer, one planer, one band saw-filing machine, two grind stones and one emory grinder, also extra cases with special tools of all kinds, sufficient to instruct 25 students at one time, or 150 in each day.

FORGE SHOP.

Located on the ground floor, and containing 1,600 square feet of cemented floor space. Fitted with Buffalo stationary blast forges, the beds of which are 24 inches by 36 inches each, with down draft exhaust hoods, anti-clinker dumping tuyeres and blast-gates. Attached to each forge are two cast iron tanks, one for coal and one for water; racks for tongs and tools are fitted to the tanks. The forges are arranged in two rows, five in each row, placed back to back near the centre line of the shop. Near one end of the shop two forges are placed, one on each side of the contral rows, forming in shape the letter T. On one side of the central row, and at the opposite end of

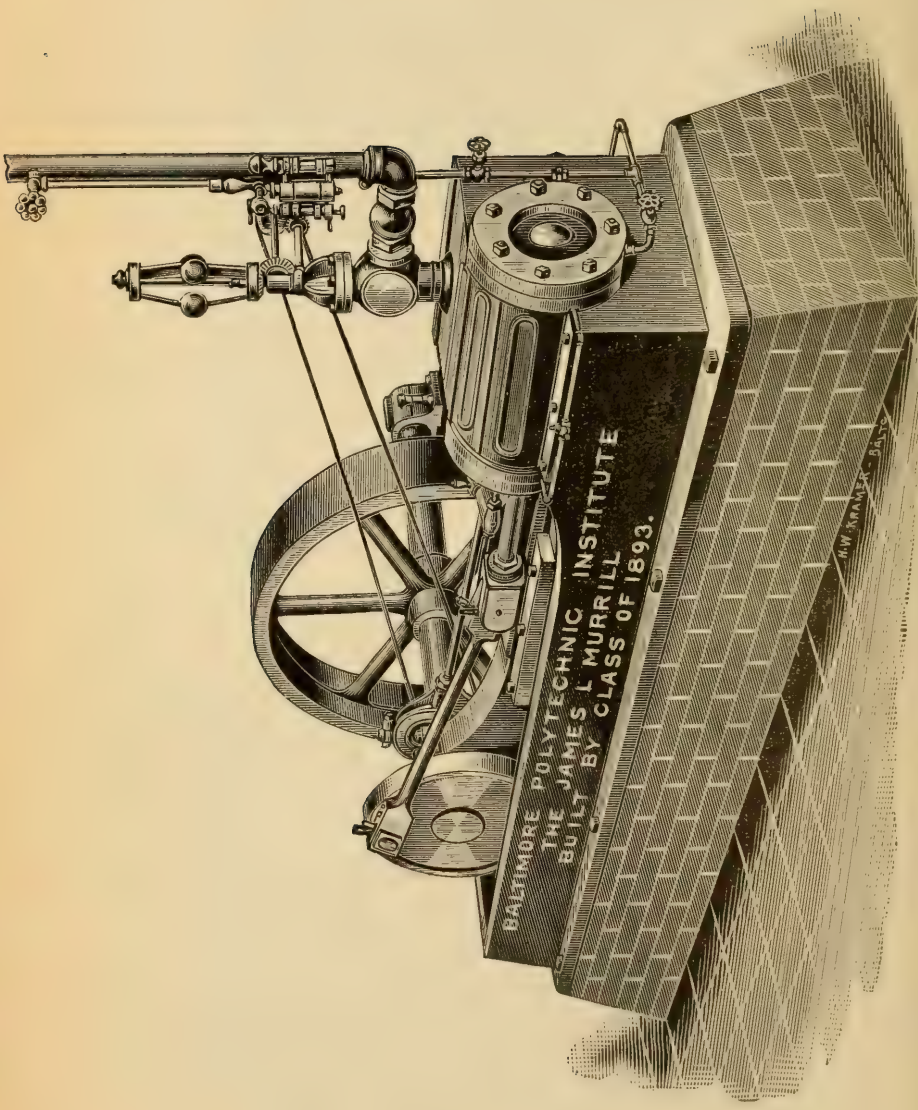


"The William W. Dix." Engine Lathe, 8-foot Bed, 14-inch Swing.
Used in shop as part of plant. Built by Class '94.

the shop, one forge is placed, forming with the central row the shape of the letter L—making thirteen forges in all. The forges receive the blast from a No. 7 steam pressure blower, located in one corner of the shop. The products of combustion are carried off by a No. 8 pattern Buffalo exhaust fan. Placed conveniently to each forge is an anvil of 125 pounds weight, firmly strapped to blocks securely planted in the ground. A work bench twelve feet long, fitted with four vises, is placed against the side wall, under the windows. A grind stone is located near one corner of the shop. A portable black-board, pivoted in a frame, is conveniently placed in the room. The tools consist of a number of hand hammers, sledge hammers, tongs, cold and hot chisels, swedges, flatters, set hammers, fullers, hardies, heading tools, punches, callipers, squares, mandrels, etc.

SHEET METAL-WORKING DEPARTMENTS.

Fitted for soldering, brazing and annealing, with a sufficient number of benches and gas soldering-iron heaters to accommodate 50 students at one time, or 300 per day. One small cornice brake, two forming, three folding, two wiring, one beading, two turning and six burring machines; two mandrels, three beak horns, five double-seaming, two conductor, seven square-face, three blow-horn, two creasing, two candlestick mould, three needle-case, two bottom, two round-head and three hatchet stakes; shears, riveting hammers, raising hammers, chisels, squares, mallets, rivet sets, steel punches, compasses, soldering-irons and grooving tools, dividers, lead blocks for punching sheet metal, wooden rules, flat chisels and nine bench vises.



"THE JAMES L. MURRILL." 20 H. P. Horizontal Slide Valve Engine.
Used for furnishing power in shops. Built by Class '93.

MACHINE SHOP.

No. 1 Brown & Sharpe Universal Milling Machine, with overhanging arm; one 24-inch swing by 12-foot engine lathe, with table for cylinder, built by Draper Machine Company; eight 10-inch by 3½-foot bed engine lathes, made by W. C. Young & Co.; four 10-inch swing by 4-foot bed engine lathes, made by F. E. Reid; one 12-inch swing by 5-foot bed engine lathe, made by W. C. Young & Co.; four 14-inch swing by 6-foot bed engine lathes, and one 15-inch swing by 8-foot bed engine lathe, made by Prentice Bros.; one 16-inch swing by 9-foot bed engine lathe, made by W. C. Young & Co.; one engine lathe, 8-foot bed by 14-inch swing, built by students of the Institute, Class of '94; one metal planer, 18 inches square; one 24x24x6-foot planer; one Universal cutter and reamer grinder; one 50,000-pound testing machine (Riehle); planer, 18x18x4-foot table, made by Putnam; one Bickford radial drill; drills to centre of circle, 5 feet 9 inches; one 20-inch wheel feed drill press; two 6-inch Boynton & Plummer shapers, and one shaper, 15-inch stroke; one double emory grinder for 10-inch wheels (dry); one 24-inch Barnes' water emory grinder; one Worcester twist drill grinder, style B; one 24-inch grind-stone and trough; thirty vises and benches for same; one set pipe tools, from one-eighth of an inch to two inches; one 12-inch three-jaw combination chuck; three 7-inch three jaw combination chucks; three 4-inch three-jaw scroll chucks; drill chucks, twist drills, tap reamers, files, chisels, hammers, scales, squares, etc., for 150 students. These shops were fitted up by the students and instructors.

Power is supplied by two Campbell & Zell boilers, and a 25-horse power horizontal direct-acting steam engine (of 9-inch diameter of cylinder and 14-inch stroke of piston), built by the members of the graduating class of 1893.

ALUMNI.

CLASS OF '87.

Clarence G. Bouis, Manager Monumental Label Works.
George C. Bump, Baltimore City Passenger Railway Company.
Lucien Dallam, Mercantile Trust Company.
Otto H. Ehlers, Maryland Steel Company.
Osma K. Gardner, Machine Supplies, with Messrs. Carey & Co.
Herbert F. Gorgas, D. D. S.
Joseph Greenbaum, Civil Engineer, City Commissioner's Office, Baltimore, Md.
Harry W. Hahn, Draughtsman, J. Patten & Co., New York City.
Minor F. Heiskell, Edison Electric Works, Schenectady, N. Y.
Robert Hooper, Mechanical Department, Northern Central Railway Company.
William S. Hugg, Book-keeper, with Messrs. Kimball, Tyler & Co.
Thomas J. Irons, South Baltimore Chemical Company.
Joseph H. Kuehn, Machinist, with Messrs. Stevenson & Company.
P. Charles Nelson, Mechanical Department, with Messrs. Dietrick, Harvey & Co.
Flavius J. Pennington, Newport News Ship-Building and Dry Dock Company.
Richard Piez, Instructor in State Normal School, Oswego, N. Y.
Henry M. Price, with Thomas C. Basshor & Co.
Walter G. Rinicker, with Northern Central Railway, Union Station.
William A. Robertson, Superintendent Baltimore Copper Works.
Albert Rosenberg, Manufacturing Novelties.
James B. Scott, Electrical Engineer.
Walter R. Sweeney, Electrical Engineer, with Edison Electric Company.
James C. Thompson, Mechanical Department, Baltimore and Ohio Railroad Company.
Adolphus Tiemeyer, with Chicago Beef Company.
Frederick H. Wagner, Mechanical Engineer.

CLASS OF '88.

Arthur O. Babendrier, Draughtsman, Borden Car Brake Company.
Edward Binswanger, Real Estate and Insurance.

Bernard H. Brooke.
Sydney S. Bouis, Draughtsman, with Henry Brauns, Architect.
Julius Fireman, Census Department, Washington, D. C.
Thomas G. Ford, Instructor in Baltimore Polytechnic Institute.
George M. Gaither, Instructor in Baltimore Polytechnic Institute.
John H. Harvey, Machinery Department, Baltimore and Ohio Railroad Company.
Howard Harvey.
Walter J. Herrman.
Joseph H. Hooper, Commission Business.
John P. Jefferson.
William Johnston, Jr., Asheville, N. C.
William Mencke, Mechanical Department of Stieff's Piano Works.
William F. Mylander, Electrical Engineer.
Edwin F. Orem, Pattern-Maker, Baltimore, Md.
Edward B. Passano, with F. X. Hooper.
George E. Repp, with Messrs. Dunn & Co.
Harry E. Roberts, Mechanical Department of Messrs. J. F. W. Dorman & Co.
George C. Robinson, Machinist, with Messrs. James Clark & Co.
Hanson Robinson, Draughtsman, Ellicott Machine Works.
Robert E. Rodgers, Inspector Machine Department, Baltimore and Ohio Railroad.
George H. Sickel, Standard Oil Company.
Washington B. Stanton.
Orlando C. Wicks, Director Manual Training School, Moline, Ill.

CLASS OF '89.

William F. Ackerman, Draughtsman.
Samuel R. Adams, Civil Engineer, Baltimore and Ohio Railroad Company.
Morgan H. Baldwin, Cotton Mills, Baltimore County, Md.
Isaac Behrend, with Messrs. B. J. Behrend & Son, Washington, D. C.
Albert T. Barrett, Mechanical Department, Maryland Meter Works.
Rozier L. Bouis, with W. C. Newton, Washington, D. C.
Robert H. Buschman, with Buschman & Son.
Charles C. Constantine, Machinist, with Messrs. E. J. Codd & Co.
Edgar P. Cromwell, Freight Department, Baltimore and Ohio Railroad Company.
Howard Crosby.
John L. Ehrman.
Allyn Field, Office of *The Baltimore Underwriter*.
Harry M. Ford, Treasurer Ford's Opera House.

Louis H. Gerding, with Messrs. Murrill & Keizer.
Arthur Gordon, Electrical Engineer, Baxter Motor Company.
Ernest Griffith, Book-keeper, with Robert C. Griffith & Co.
John S. Hand.
Joseph Isaacs, Civil Engineer.
Claiborne M. James, Civil Engineer's Department, Baltimore and Ohio Railroad.
Albert C. Layman, with Columbian Iron Works.
Charles W. Leach, with Leach & Orem.
J. W. C. Meikle, with Messrs. Smith, Dixon & Co.
George W. Moog, deceased.
John K. Mount, with John C. Grafflin Company.
Robert W. Peach, Mechanical Department of Stieff's Piano Works.
Charles E. Phelps, Jr., Chief Engineer, Baltimore Subway Commission.
William G. Robertson.
Robert C. Round, Postoffice, Baltimore, Md.
Myron S. Rose, Mechanical Department, Navy Yard, Washington, D. C.
William C. Seigmund, Doctor Veterinary Surgery.
Joseph Steifel, with Messrs. Steifel & Cohen.
Harry P. Suman, with Messrs. Suman & Ott.
Carroll Thomas.

CLASS OF '90.

John F. Abendschein, Machinist, with F. X. Hooper & Co.
G. S. Barnes, Architect, with Charles Carson.
J. H. Bokee, Maryland Brick Company.
John E. Broadbelt, Jr., Instructor, Baltimore Polytechnic Institute.
W. H. C. Farinholt, Merchant, Bayport, Va.
Chris. Feick, with N. Y. Besent.
J. Froelich.
William P. Gundry, Instructor, Baltimore Polytechnic Institute.
E. C. Harris, deceased.
J. C. Mattoon, Instructor, Easton (Md.) High School.
John D. Pugh, Draughtsman, Engineer Corps, United States Army.
A. O. Robertson, Electrician, Wenstrom Electric Company.
* William F. Schulz, Inspector, Westinghouse Company, Wilkinsburg, Pa.
Michael D. Schaefer, Draughtsman, Steelton, Md.
William P. Shriver, Educational Director, Young Men's Christian Association.
Theodore Straus, Electrician.

CLASS OF '91.

Walter Amos, Receiving Teller, American National Bank.
Basil Benson, with People's Machine Works.
William Benson, with J. H. Medairy & Co.
William Boucsein.
Morde Bren, with Baxter Electric Motor Works.
John J. Caine, John Caine & Sons, Builders.
George Dannettel with Ries Electric Motor Works.
Charles Ehlers, with Mergenthaler's Linotype Machine Works.
Ferdinand B. Keidel, Student, Johns Hopkins.
J. Edgar Knipp, Minister, United Brethren.
Samuel McNeal, with F. X. Hooper & Co.
James C. Phillips, with Phillips Bros. & Co.
* Herbert M. Reese, Johns Hopkins.
Edmund W. Robinson, with Robert B. Womble.
Reuben Row, Draughtsman, John C. Froelich & Co.
Warren S. Seipp, Instructor, Baltimore Polytechnic Institute.
Richard S. Warner, with Boyd, Jones & Co.
William A. Young, Electrician, Baltimore Subway Commission.

CLASS OF '92.

Edwin W. Antes.
John P. Baer, Merchants' National Bank.
Frank J. Borie, Assistant Engineer, United States Navy.
B. Harrison Branch, General Electric Company, Schenectady, N. Y.
Leonard Burbank, with Consolidated Gas Company.
† William C. Butler, Jr., Traction Company, Washington, D. C.
J. W. Dawson, Jr., Draughtsman, Cramp's Ship-Yard, Philadelphia.
* Royal R. Duncan, Attorney-at-Law.
Charles R. Durling, D. E. Evans & Co., Electricians.
Isidor Deutsche, Electrical Engineer.
Walter H. Eisenbrandt, United States Revenue Marine Service.
William L. Holmes, Electrician, Oella Cotton Mills, Howard County, Maryland.
Frank B. Hooper, Construction Department, Maryland Steel Company.
Edgar N. King, Baltimore and Ohio Railroad Company.
John Langford, with Southern Electrical Company.

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* Received the Alumni Medal, having graduated with the highest general average.

† Received the Saville Steam Engineering Medal, having graduated with the highest average in Steam Engineering.

Louis Liepman, Proprietor the Novelty Plating Works.
R. M. Miller, with Young, Creighton & Diggs.
J. C. Miller, with Patapsco Rubber Company.
Joseph Mullen.
William H. Rose, Student, Cornell University.
Albert G. Singewald, Student, Cornell University.
William H. Soine, with Charles Zies, Engineer and Machinist.
William E. Straus, Student.

CLASS OF '93.

Theodore H. Ackerman, Engineering Department, Lake Drummond and Canal Water Company.
* Herbert Addison, General Superintendent Union Coal and Coke Company, Denver, Colorado.
Oregon R. Benson, Mining, Klondike.
Percy Thayer Blogg, Embosser, with Bartgis & Co.
C. Raymond Carson.
William John Cochran, with Wallace Stebbins & Sons.
E. C. D'Yarmett, Instructor, Hampden Normal School.
Henry M. Fitzhugh, Medical Student.
Clarence S. Hand, Draughtsman, with Campbell & Zell Company.
James F. McShane, Draughtsman, with Bartlett, Hayward & Co.
Clarence M. Morfit, Electrician, United States Navy.
F. H. Phelps, Real Estate Agent.
† Edwin Schenck, Electrician.
John R. Uhler, Instructor in Beaver College, Beaver, Pa.
L. Ismay Van Horn, Draughtsman, with Mann & Co.
Charles P. Weishampel, with Milliken Bros., Engineers, New York.
R. L. Williams, lost at sea, on Bourgogne, July 4, 1898.

CLASS OF '94.

Edward H. Bell, Electrician, Brooklyn, N. Y.
Albert M. Bowen, Jr., United States Express Company.
J. Straith Briscoe.
Harry Cotton, Medical Student.
Carroll Edgar, Instructor, Maryland Nautical Academy.
Frederick Kopp, Printing.

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* Received the Alumni Medal, having graduated with the highest general average.

† Received the Saville Steam Engineering Medal, having graduated with the highest average in Steam Engineering.

*Philip Littig, Jr., Electrician.
Thomas Q. McGinn.
Herbert A. McGraw, Student, Cornell University.
†Horace J. Miller, Marine Engineer.
Louis Mueller, Printer.
George M. Parlett, Draughtsman, Thos. C. Basshor & Co.
Charles Schlicker.
Alan P. Wilson, Baptist Minister.
John Zeubert, Student, Johns Hopkins University.
Pliny Cutler Hall, Hotel.
Edward J. Herring, Herring Bros., Machinists, Winston, N. C.

CLASS OF '95.

George W. Brown, with Preston, Fiddie & Co.
Clifton A. Coggins, Draughtsman, William Hollingsworth, Machinist.
Harry W. Francis, with Sumner & Francis, Straw Hat Manufacturers.
*Graham B. Hall, Bicycle Dealer.
William W. Hogendorp, Messrs. Joel Gutman & Co.
Albert J. Hooper.
Frank A. Hornig.
Howard L. Hoskins, Acetylene Gas Company.
Edward M. Likes, *Baltimore American*.
†Ward P. Littig, Student, University of Maryland, Law Department.
Alfred F. Loeser, Draughtsman, Bartlett, Hayward & Co.
Thomas J. H. Magness, Bicycle Dealer.
Herman F. Meyer, with Alexander Brown & Sons, Bankers.
George N. Rogers, Expert Accountant.
Hamilton D. Ruth.
Richard F. Weishampel.
Carl A. Witthaus, deceased.

CLASS OF '96.

Samuel Hosea Armstrong.
Howard Douglas Bennett.
James Gomalial Boss, Jr.
William Augustine Boykin, Jr.

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*Received the Saville Steam Engineering Medal, having graduated with the highest average in Steam Engineering.

†Received the Alumni Medal, having graduated with the highest general average, and the Class of '93 Electrical Medal, having graduated with the highest average in Electrical Engineering.

Robert Lemmon Burwell.
Harry Parr Diggs.
Frederick Ludwig Henry Glendmeyer.
William Howard Hamilton.
Arthur Worthington Hawks, Jr., Reporter Baltimore *Herald.*
Louis Kemp Hennighausen.
Harry Louis Homer, Student.
*Ludford Cohoon Jones, Machinist U. S. Navy.
Leon Alvyn Kohn.
Erich Albert Loeser.
†Henry Louis Mencken, with Aug. Mencken & Bro., Cigar Manufacturers.
‡Harold Vincent Patterson.
Harry Clay Powell, Jr.
Gilmor Meredith Ross.
Thomas Quincy Scott.
°Henry Bonn Silverthorn, Colonel Sinn's Montauk Theatre, Brooklyn, N. Y.
William Henry Smith.
Frederick Worthington von Stein.
Roscoe Conkling Sweeny.
Charles Edwin Wilson.
Olin Alexander Wilson, Instructor Easton (Md.) High School.

CLASS OF '97.

Louis Fabian Bachrach.
§Alan Marion Bennett, with C. Howland Sherman, Marine Engineer, Washington, D. C.
‖William Melvin Carter.
Elvin Griswold Cromwell.
John Towson Elsroad, Jr., Telegraph Operator.
John Montgomery Gambrill, Principal Ellicott City (Md.) High School.

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*Received the German Medal, having graduated with the highest average in German.

†Received the Alumni Medal, having graduated with the highest general average.

‡Received the Saville Steam Engineering Medal, having graduated with the highest average in Steam Engineering.

°Received the Class of '93 Electric Medal, having graduated with the highest average in Electrical Engineering.

§Received the Class of '93 Electrical Medal, having graduated with the highest average in Electrical Engineering. Received also the German Medal, having graduated with the highest average in German.

‖Received the Alumni Medal, having graduated with the highest general average. Received also the Class of '96 Mathematical Medal, having graduated with the highest average in Mathematics.

Ernest Cummins Hatch, Student.
*William Hain Kirwan, Electrician U. S. S. *Dixie*.
Harry L. Kugler, with E. G. Hipsley & Co.
Chester Waters Larner, Standard Oil Co.
Howard Osgood Preston, with Messrs. Murrill & Keiser.
George Gottlieb Schnepfe.
Frederick Lewis Schwartz.
Joseph Stewart Smith, Jr.
Douglas Alan Sparks.
Joseph Morrison Sparks.
Wilson Ward.

CLASS OF '98.

† Thomas Jefferson Andrews, Draughtsman, B. & O. R. R., Wilmington, Del.
Alan Joseph Bachrach, with Messrs. Bachrach Bros.
‡ Leo Bauersfeld, with McCay-Howard Co., Electrical Engineers.
Wilbur McKew Bosworth, Mount Clare, B. & O. R. R.
Frederick Derick Dollenberg, Jr., with Standard Oil Company.
Romulus Griffith Doyle, with Matthai, Ingram & Co.
John Howard Flayhart, Draughtsman, Snowden & Cowman.
Henry Galloway, with McCay-Howard Co., Electrical Engineers.
Charles Raymond Gantz, with Geo. C. Gantz & Son.
Samuel Thomas Griffith, with Messrs. Falaferro & Thomas, Insurance Agents.
§ Alfred Cummins Hatch, Book-keeper, Towson National Bank.
William Herman Hubers, Jr.
Joseph Lowrie Ingle, Jr., Student.
John Scott Longnecker.
John Walter McGreevy.
Edward Harris Mealy, with Messrs. Hennegen & Bates, Jewelers.
William Charles Metcalf, with Pennsylvania R. R.
John Floyd Miller, with D. Holliday & Co.
William Eldred Nolan, Draughtsman.

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*Received the Saville Steam Engineering Medal, having graduated with the highest average in Steam Engineering.

† Received the Alumni Medal, having graduated with the highest general average. Received also the Class of '96 Mathematical Medal, having graduated with the highest average in Mathematics.

‡ Received the Saville Steam Engineering Medal, having graduated with the highest average in Steam Engineering.

§ Received the German Medal, having graduated with the highest average in German.

Gurdon Tyler Pollard, Draughtsman, with Bartlett & Hayward.
Walter Percy Poole.
John Maurice Rehberger, Student.
John McCullough Rife, Draughtsman, Crown Cork and Seal Company.
* Harry Rufus Ruse.
Paul Edward Schaun, Student.
John Henry Sirich, Jr., with Messrs. Poole & Hunt.
John Smith, Student.
Herbert Turner Snyder, Student.
George Creamer Wilcox, B. & O.

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* Received the Class of '93 Electric Medal, having graduated with the highest average in Electrical Engineering.

POST GRADUATES.

William Felter Ackerman, '89.
William Henry Soine, '92.

PREPARATORY DEPARTMENT.

Composed of boys from the sixth, seventh and eighth grades of grammar and English-German schools, and those who pass a satisfactory examination in the following subjects:

1. *Arithmetic*—Through United States Money. Common fractions, decimals and compound numbers.

2. *Geography*—Easy questions on United States and South America.

3. *Language*—Spelling ordinary words. Distinguishing parts of speech and using them correctly in sentences.

TEXT-BOOKS.

Arithmetic—Hobbs' Academic.
Algebra—Ray's Higher and Elementary.
Wentworth's School.
Wentworth's First Steps.
Book-keeping—Montgomery's Modern.
Geometry—Wentworth's.
Geography—Appleton's Standard.
Frye's Complete.
Grammar—Sheldon's Language Lessons.
Whitney and Lockwood's.
History—Eggleston's United States.
Physiology—Dulany's Standard.
Martin's Human Body.
Reader—Newell's Sixth.
Newell's Fifth.
Swinton's Fifth.
Wood-worker—Sickel's.
Metal-worker—Jones.

SCHEDULE OF STUDIES OF PREPARATORY DEPARTMENT.

SIXTH GRADE.

Language—Spelling, oral and written exercises; compositions, including original productions, reproductions and abstracts of lessons in reading, geography and history; studies of simple sentences; parts of speech distinguished and their office; the gender, person, number and cases of nouns and pronouns; the comparison of adjectives and adverbs.

Reading—Swinton's Fifth Reader. Supplementary Reading.

Writing—One writing book each half year; copy short letters or notes.

Arithmetic—Thorough review of decimal and common fractions. Denominate numbers, with practical problems involving the principles of surface measurements—painting, plastering, carpeting, etc.; also problems in cubical contents—reservoirs, bins, etc. "Work problems." Longitude and Time.

Algebra—Definitions, examples in numerical value, verification of numerical equations, addition, subtraction, removal of parentheses, placing quantities within parentheses, multiplication, division, miscellaneous examples involving the operations of the four fundamental rules, and the solution of numerical integral equations.

Mensuration—The solution of problems involving of lines, surfaces and volumes.

Geography—Higher; Southern States, Central and North Central States; Europe.

History—Eggleston's History of the United States to Chapter 23.

Science—Dulany's Physiology.

Drawing—Forty-five minutes each day; sketching from models; free-hand drawing; maps of Maryland and the United States.

Wood-work—Sixty minutes each day for twenty weeks; care and use of tools; make ten lessons.

Sheet Metal Work—Sixty minutes each day for twenty weeks; care and use of tools and charcoal furnace; make ten lessons.

SECOND YEAR—SEVENTH GRADE.

Language—Oral and written exercises; work of the preceding year continued; compositions, including abstracts of lessons in reading, geography and history, social and business letters. Properties of the parts of speech completed—voice, mode, tense and the use of auxiliaries; analysis and study of easy complex and compound sentences; principles of syntax illustrated by familiar examples; punctuation.

Reading—Newell's Fifth Reader; History of the United States; spelling; supplementary reading; compositions and other written exercises; recitation of appropriate selections.

Writing—One writing book each half year; copying bills; writing in blank books valuable extracts, compositions and reproductions.

Arithmetic—Percentage:

(*a*) Profit and loss, and commercial discount.
(*b*) Interest—simple, annual and compound.
(*c*) Partial payments—United States and Mercantile Rules.
(*d*) True and bank discount.

Ratio and proportion—simple and compound.

Partitive proportion, simple and compound partnership, and alligation.

Mensuration—Drill in finding surface and contents of the following figures:

Triangle, trapezoid, trapezium, circle, cylinder, cone, prism, pyramid. Practical problems are worked, the student being taught how to compute the cost and quantity of material used in the various lessons made in the shops.

History—Eggleston's History of the United States to Chapter 37; reviewing first year's work.

Science—Martin's Human Body, by Dulany. First half to Circulation.

Geography—Rocky Mountain and Pacific States; Europe reviewed; Africa; maps of Maryland and Africa.

Algebra—A review of the first year's work, instruction in the various methods of factoring, finding the L. C. M. and the G. C. D. by the factoring method, fractions, solution of equations involving one, two, three or more unknown quantities and problems depending upon them. Particular attention is given to factoring.

Drawing—Forty minutes each day. Free-hand and maps.

Wood-work—Sixty minutes each day for twenty weeks; care and use of tools; make ten lessons.

Metal Work—Sixty minutes each day for twenty weeks.

THIRD YEAR—EIGHTH GRADE.

Reading—Newell's Sixth Reader. Supplementary Reading, including Civics, Constitution of United States, and pupils' selections from leading authors.

Spelling—From lessons in reading.

Writing—Two books per year. Vertical System.

Composition—Instruction is given in the accumulation of materials and the arrangement of matter, diction, formation of sentences and paragraphs, punctuation and the use of capitals.

Grammar—A review of the grammatical principles previously taught; and a careful study of the structure, analysis, and uses of sentences. Particular attention is paid to the correct use of the different parts of speech.

Book-keeping—The completion of several sets in single entry, combined with the practice in writing notes, drafts, bills, orders, etc.

Arithmetic—A thorough review of the work previously taught, in conjunction with the study of commission, insurance, taxes, duties, equation of payments, average of accounts, involution and evolution, and series.

Algebra—Wentworth's—Exercises in generalization, discussion of simple equations, involution, evolution, radicals, inequalities and quadratics.

Mensuration—Solution of problems based on the lessons that have been made in the shops.

Geometry—Wentworth's—The first two books, as far as measurement of angles, consisting of definitions, straight lines, angles, triangles, polygons, and the circle.

Geography—Asia, Oceania and Maryland. Review of Mathematical and Physical Geography.

Physiology—Martin's Human Body from Circulation to Nervous System.

LESSONS IN CARPENTRY—SIXTH GRADE.

FREEHAND DRAWING.

The course covers three years (four hours per week for forty weeks), for the sixth, seventh and eighth grades, *consecutively*, classed under the heads of Construction, Decoration and Representation, as follows:

Construction—Beginning with simple geometrical models the pupil is gradually advanced until complete working drawings (for each respective grade in both wood and metal shops) are made.

Decoration—Origin of ornament, its use and application, in borders, rosettes and surface coverings. Study of Historic examples. Original application. Color.

Representation—Sketching from "type forms" and objects based on them in outline, and light and shade, with pencil. Casts, etc., in charcoal and crayon. Maps. Perspective.

WOOD-WORK.

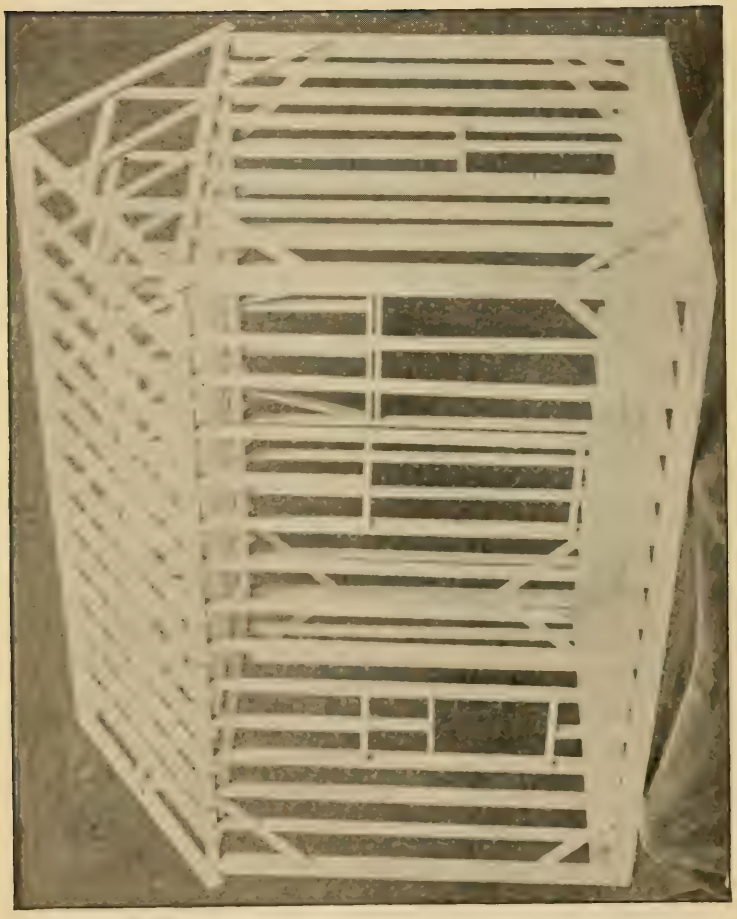
FIRST YEAR—SIXTH GRADE.

One Hour and Forty Minutes Twice Each Week. Twenty Weeks.

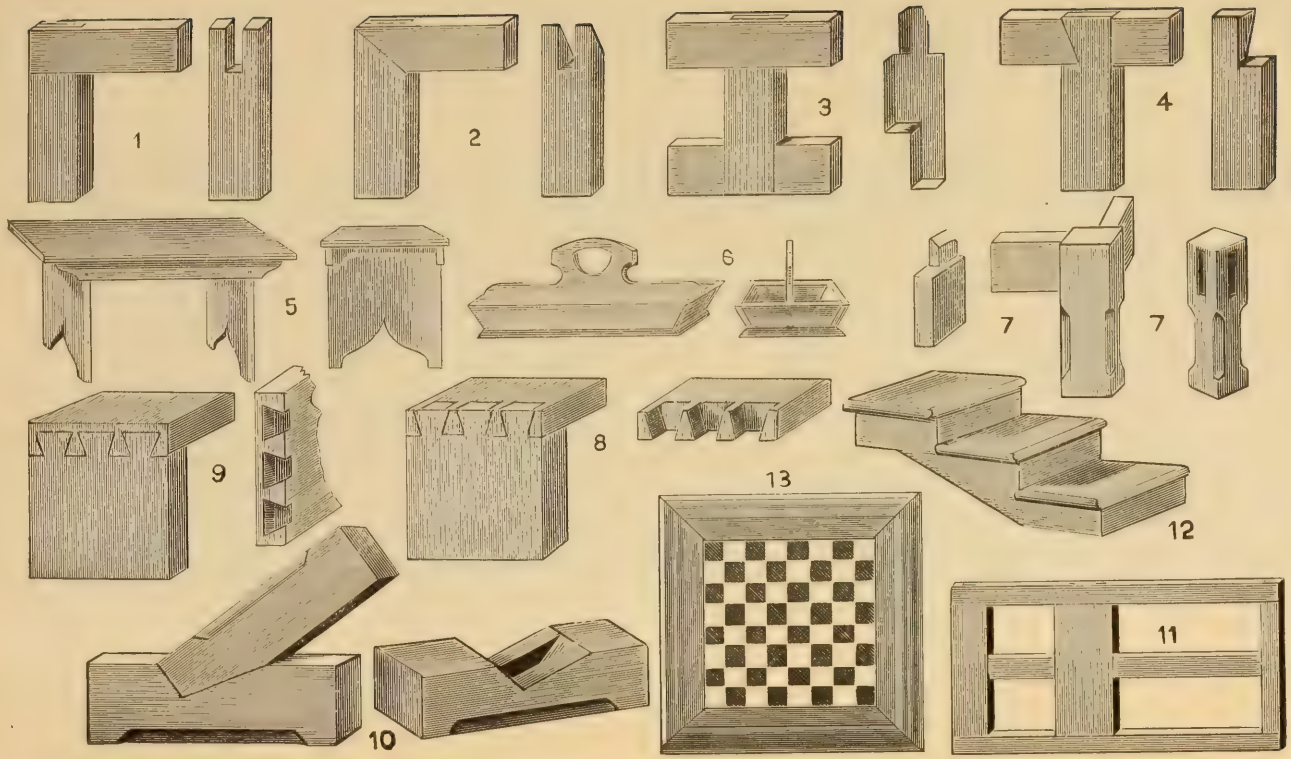
The course in carpentry of the sixth grade embraces the following exercises:

1. Square prism.
2. Saw kerfiing.
3. Trenching.
4. Chamfering.
5. Centre half lap joint.
6. Notch joint.
7. Stool.
8. Plain nailed box.
9. Knife box.

In addition to the bench exercises they have lectures on the structure and composition of wood; age, decay and season for cutting wood; warping properties, defects and measure and value of wood, and the care and use of tools.



CARPENTRY—SECOND YEAR—SEVENTH GRADE.



CARPENTRY—SECOND YEAR—SEVENTH GRADE.

LESSONS IN CARVIN[illegible]

SECOND YEAR—SEVENTH GRADE.

One Hour and Forty Minutes Twice Each Week. Twenty Weeks.

Care and use of tools.

1. Open mortise and tenon, 1¼x1¼x4 inches.
2. Mitre mortise and tenon, 1¼x1¼x4 inches.
3. Combination—half lap and mortise-and-tenon joint.
4. Half lap dovetail joint.
5. Stool—12x7x6 inches.
6. Knife box, 14x8x2¼ inches.
7. Table leg joint.
8. Dovetail joint.
9. Half-blind dovetail joint.
10. Brace mortise and tenon.
11. Door frame.
12. Stairs—carriages, risers and treads.
13. Checker board.

EIGHTH GRADE—THIRD YEAR.

Preparatory course in carving. Embraces:

Care and use of carving tools.
Properties of woods best fitted for carving.
Surface carving.
Incised carving.
Relief carving.
Panels, mouldings, and perforated carvings.
Methods of finishing and staining.

SHEET METAL WORK—FIRST YEAR—SIXTH GRADE.

REPOUSSE WORK—SECOND YEAR—SEVENTH GRADE.

SHEET METAL WORK.

FIRST YEAR—SIXTH GRADE.

Sixty Minutes Each Day. Twenty Weeks.

The course of instruction pursued is as follows, viz.: Study of the metals and their alloys; the care and use of tools; how to make and care for the fire in a charcoal furnace; gas-heating furnace; how to lay off the work; the composition and requirements of solder. Fluxes used in soft soldering.

The following practical lessons are given:

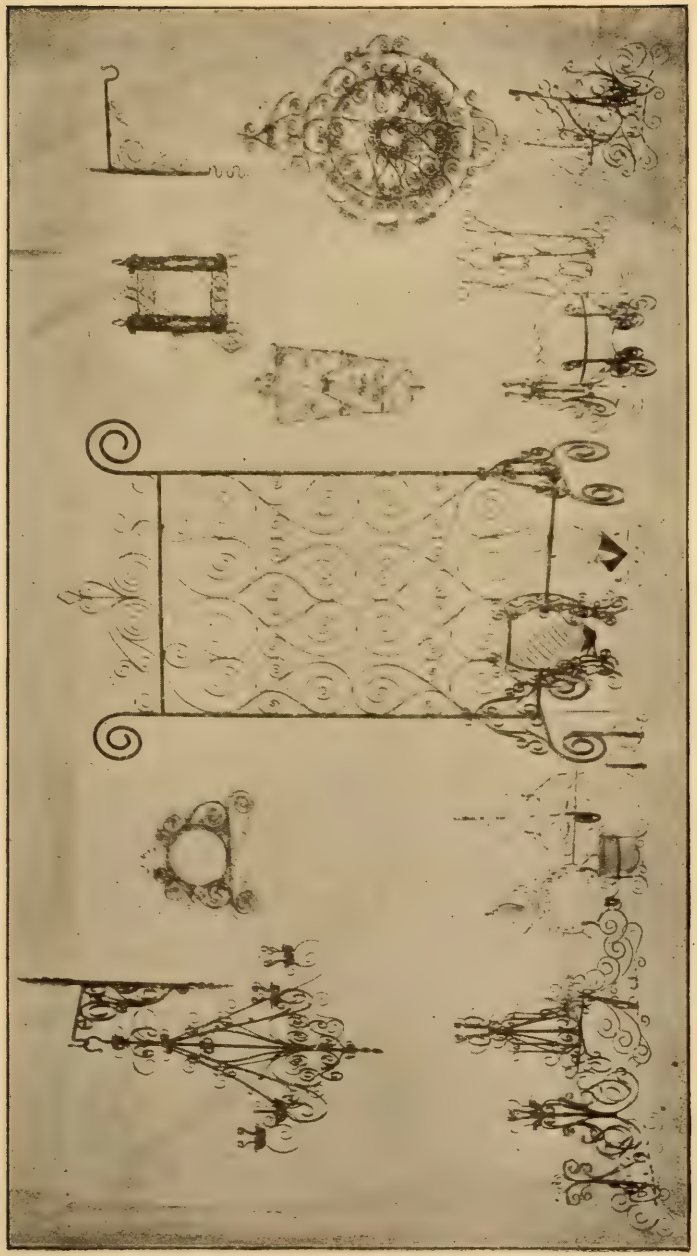
1. Solder two pieces of tin together.
2. Groove and solder a seam.
3. Rivet two pieces of tin together.
4. Exercise in wiring and rolling.
5. Plain pipe, 6 inches long, 2 inches diameter.
6. Square pipe, 6 inches long, 2 inches square.
7. Tin cup.
8. Rectangle pan, 4x8x1½ inches deep.
9. Funnel.
10. Plain kettle.
11. Elbow right and obtuse angle, 6x6x2 inches deep.
12. Round pan, 4 and 5 inches diameter, 1½ inch deep.
13. Coffee pot, 3½ inches diameter, 6 inches deep.
14. Butter kettle, 8x5x5 inches.
15. Sprinkling can.
16. Milk can.

SHEET METAL WORK.

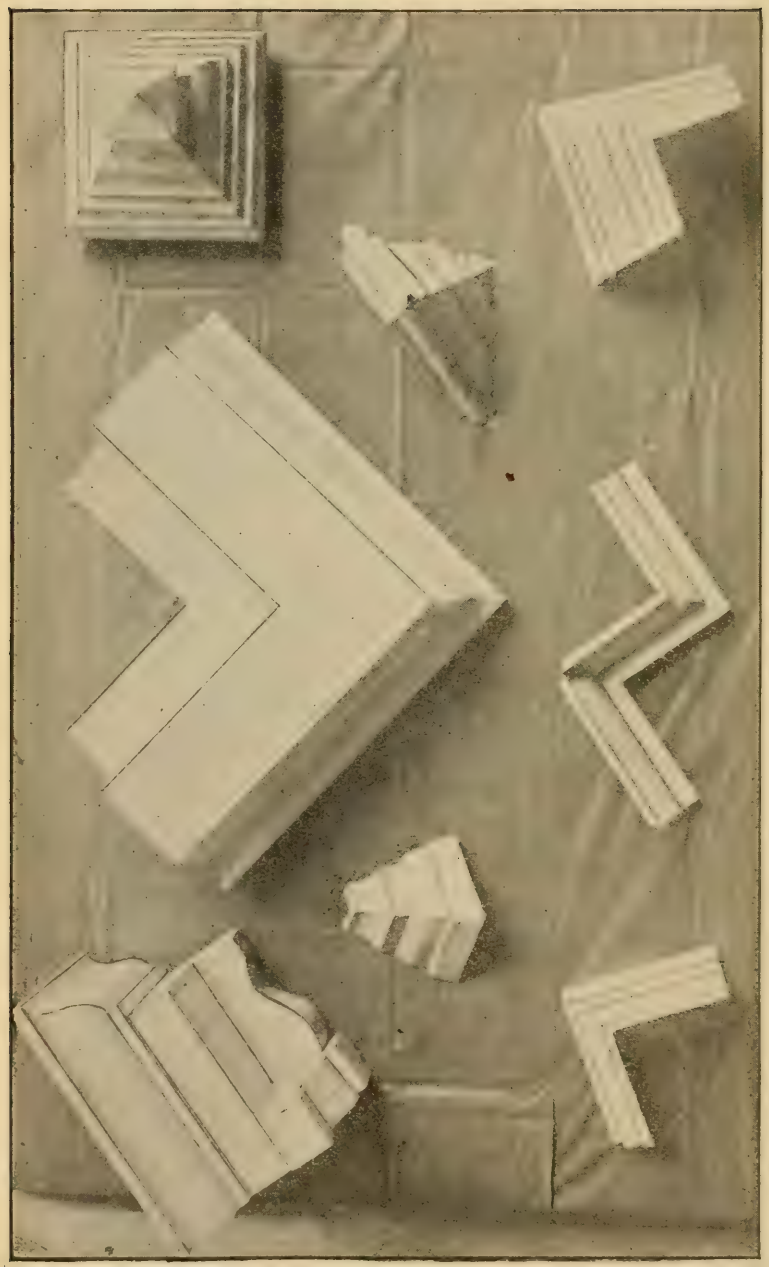
SECOND YEAR—SEVENTH GRADE.

Sixty Minutes Each Day. Twenty Weeks.

Review of the work of the first year; drawing and laying of the work designed by each student for practical lessons; brazing and annealing. The management of a gasoline and mouth blow pipes, and the



IRON WORK—THIRD YEAR—EIGHTH GRADE.



CORNICE MITRE—THIRD YEAR—EIGHTH GRADE.

study of the various metals, with lectures thereon; also upon the work and tools generally. The practical lessons are:

Soldering and brazing.
Pattern-cutting.
Repousse work in Tin, Zinc, Copper and Brass.
Forming designs in Venetian Iron.

SHEET METAL WORK.

THIRD YEAR—EIGHTH GRADE.

Twenty Weeks.

For those who have completed the first and second year course, the principal instruction given is the drawing, laying off, and forming cornice mitres.

For others:

Brazing copper pipe seam.
Copper pan, made of one piece.
Advanced work in repousse.
And an original design in Copper, Tin and Brass.

NAMES OF STUDENTS.

PREPARATORY DEPARTMENT.

FIRST YEAR.

SIXTH GRADE—FIRST SECTION.

Alldridge, Harry L.....604 West Lee street.
Bensel, J. Harry.....2126 East Monument street.
Biedler, F. Wilbur.....1708 St. Paul street.
Byers, Davis T.....1800 North Caroline street.
Caple, Walter J.....1144 North Carrollton avenue.
Chaims, Lawrence M.....246 South Broadway.
Crawford, William W.....1822 North Caroline street.
Dorsey, John W., Jr.....407 North Charles street.
Giampaoli, Joseph.....510 President street.
Goodwin, Thomas H.....810 North Carey street.
Gross, Frederick G.....1818 North Chester street.
Johnson, Clarence E.....134 Gittings street.
Katz, Jacob.....1525 East Pratt street.
Kershaw, James B.....755 Third avenue.
Kohlhepp, Harry S.....1001 Linden avenue.
Kohlhepp, Joseph W.....1001 Linden avenue.
Lang, John J.....904 East Madison street.
Liedlich, Harry C.....1444 N. Carey street.
Luers, George A.....Bowie, Prince George's county, Md.
Mertel, Michael J.....1920 Gough street.
Ogilvie, Thomas R.....831 W. Cross street.
Oldewurtel, John.....505 South Broadway.
Pearson, Solon T.....410 North Gilmor street.
Phipps, George M.....838 Harlem avenue.
Reed, J. Frank.....1617½ Ashland avenue.
Rettaliata, Charles.....104 Mt. Royal avenue.
Rettaliata, Valerio.....104 Mt. Royal avenue.

Reynolds, Bernard I.....1715 Druid Hill avenue.
Robinson, Herbert V.....1309 Linden avenue.
Schroeder, J. Harry.....1620 East Federal street.
Scott, B. Howard.....312 East North avenue.
Shockney, W. Stephen.....731 Cumberland street.
Taylor, Danie E.....1032 North Stricker street.
Thomas, John.....643 W. Lombard street.
Vaeth, Frederick.....1108 Leadenhall street.
Valentini, Joseph.....1002 East Pratt street.
Walker, Frederick C.....2419 East Townsend street.
Ware, C. Carroll.....218 West Huntingdon avenue.
Watts, Frank W.....801 North Calvert street.

SIXTH GRADE—SECOND SECTION.

Benseler, Ernest A.....10 Garrison lane.
Bladin, C. Eric.....507 North Fremont avenue.
Bonsal, Charles W.....1829 Montrose street.
Clark, Robert A.....26 North Caroline street.
Davis, Howard E.....Rose Hill, Waverly.
Duvall, Samuel T.....809 North Fremont avenue.
Eckert, William.....2533 West Lexington street.
Edel, Charles A.....1641 West Lanvale street.
Ennis, Howard W.....1118 North Fulton avenue.
Feige, John H. P.....413 North High street.
Gleitsman, William H. F.....918 Pennsylvania avenue.
Goetze, William L.....1036 Hopkins avenue
Harp, Edward Lawrence.....302 South Chester street.
Heller, Fred. B.....908 West Lexington street.
Hess, William E.....716 East Biddle street.
Hill, J. Norman.....819 North Washington street.
Johnston, James G.....909 Ridgeley street.
Jones, Whitney Wallace.....801 William street.
Lyon, William T.....1707 Edmondson avenue.
McBee, Jesse W.....707 East Chase street.
Mabbett, Joseph Edwin.....2022 Mount Royal Terrace.
Marmour, Leon.....1812 McCulloh street.
Miller, George F.....1 Oakdale avenue.
Mill, Irving Elwood.....235 Carroll street.
Parker, Henry H.....623 North Mount street.
Parsons, Sidney H.....1033 North Eutaw street.
Sargent, Edward B.....1721 East Preston street.
Solomon, Otto.....2120 East Monument street.

Storm, Bayard..... 506 North Calvert street.
Tall, Richard S..... 515 West Lee street.
Taylor, Joseph A.....1703 East Lanvale street.
Walsh, Aloysius S.....649 North Paca street.
Webb, M. Leslie..... 618 West Franklin street.
Wenchel, Lawrence, Jr..... 521 North Wolfe street.
West, Frank H..... .....201 North Carey street.
Yingling, Frank S..... .....555 Presstman street.

SIXTH GRADE—THIRD SECTION.

Bamberger, George..... .....1314 Greenmount avenue.
Bamberger, Thomas.....1314 Greenmount avenue.
Barton, Charles H., Jr .....Corner Parkdale and Woodberry avenues.
Bateman, Frank C.....924 Madison avenue.
Bemis, Earl A..... .....902 Madison avenue.
Brown, Thomas C..... .....755 West Fayette street.
Cadell, William..... 115 Milton avenue.
Childs, George M.....1003 Oliver street.
Connolly, James E.....1116 North Eutaw street.
Crocket, William H.....33 East Henrietta street.
Crowley, Stuart.....1516 Mulberry street.
Cummings, Hershey S.....1221 McCulloh street.
Euler, August.....1031 Pennsylvania avenue.
Fritz, Emanuel..... ....117 Pearl street.
Gough, William J.....1721 Guilford avenue.
Hehthcote, Paul.....626 Pitcher street.
Hebb, Joseph S..... .....824 East North avenue.
Hewitt, Harry.....1316 Wilcox street.
Holms, Raymond..... ....321 North Fulton avenue.
Kalb, John..... .....1143 Columbia avenue.
Kavanagh, Hugh..... ....407 East Madison street.
Lyons, E. Bayley.....2420 Druid Hill avenue.
Mitchell, William O..... .....Lauraville, Md.
Morgan, Harlan W.....1413 West Lafayette avenue.
Noris, Millard C.....1004 Greenmount avenue.
Porter, David.....1124 Linden avenue.
Pyle, Frank J..... .....1102 Leadenhall street.
Radcliff, Samuel H.....1517 East Hoffman street.
Richardson, Harry L.....Laurel, Del.
Robinson, Millard F..... ...1232 East North avenue.
Rogers, Walter..... .....927 Linden avenue.
Rogers, Howell..... ..... 1511 Presstman street.

Schroeter, Eric.....2502 Woodbrook avenue.
Schultheis, Charles.....1553 Newington Place.
Steffey, Harold.....2541 West North avenue.
Thomas, Harry C.....633 North Carrollton avenue.
Thomas, LeRoy..... 5 East Pleasant street.
Warnsman, Edward M.....1512 North Broadway.
Weitzel, William M.....1032 McDonough street.
Williams, Harry.....1624 West Mulberry street.

SECOND YEAR.

SEVENTH GRADE—FIRST SECTION.

Blakesley, Delbert E.....1418 North Bond street.
Boyc, J. Albert.....1802 Bolton street.
Brent, Raleigh C.....1523 Linden street.
Brittingham, Henry C.....930 Harlem avenue.
Brown, A. Carroll.....122 West Twenty-fourth street.
Brown, Harry B.....122 West Twenty-fourth street.
Czarnowsky, Herbert F.....1513 Riggs avenue.
Darby, Walter C.....2018 North Charles street.
Desch, John M. J.....1427 North Charles street.
Ford, Ulysses S.....2425 East Preston street.
Fusselbaugh, Leston P.....422 North Gay street.
Giese, Richard S.....Wynoak avenue, Waverly.
Goodwin, John G.....407 North Calvert street.
Gross, John H.....1517 East Chase street.
Heighe, Frederick C.....834 Park avenue.
Heighe, Robert H.....834 Park avenue.
Herring, Edward.....1721 West Lombard street.
Herth, Charles E.....1015 Ridgely street.
Hinman, Frank L.....1600 St. Paul street.
Hitchcock, Brooke B.....1008 Clifton Place.
Jackson, William R.....626 North Carey street.
Knable, William E.....507 Roberts street.
Knieling, Louis J.....1541 North Bond street.
Linthicum, Asa S.....402 North Carrollton avenue.
Mackall, Colin M.....127 West Mount Royal avenue.
Marck, Allen L.....658 Pitcher street.
Northam, Manly P.....2135 Jefferson street.
Orth, Grover C.....1216 Ashland avenue.
Padgett, Robert G.....1621 North Broadway.
Penniman, Harry Y.....Mount Washington, Md.
Quigley, Edward E.....314 North Pine street.
Reid, McDonnell.....1928 Mount Royal avenue.

Rossmarck, George J.....1930 Druid Hill avenue.
Selden, William A.....137 West Mount Royal avenue.
Smith, Horace T.....1906 Bolton street.
Switzer, Daniel A.....1808 North Durham street.

SEVENTH GRADE—SECOND SECTION.

Banner, Maurice L.....1517 Riggs avenue.
Benson, Percy.....1328 Druid Hill avenue.
Brannan, Harry N.....330 Falls road.
Cavey, Edward N.....1214 West Lombard street.
Cockey, Vinton D.....2029 North Calvert street.
Collins, George C.....640 Constitution street.
Dengler, Joseph G.....1718 Canton avenue.
Eckhardt, Harry V.....822 East North avenue.
Gavan, J. Howard.....718 West North avenue.
Greene, Frank A.....2308 East Baltimore street.
Groverman, Arthur.....Ellicott City, Md.
Hanselman, Carl.....1836 East Monument street.
Hartman, James H.....810 North Fremont street.
Johnston, Frank A.....Ilchester, Md.
Krantz, Theodore E.....403 North Calhoun street.
Lally, James J.....623 North Paca street.
Luard, William S.....1203 East Chase street.
Matthews, C. Leigh.....1925 Park avenue.
Meisenhalter, Frank T.....2030 North Washington street.
Menchen, Arthur.....2827 St. Paul street.
Miller, Frank W.....1 Oakdale avenue.
Roberts, Raymond.....27 Patterson Park avenue.
Saur, August G.....219 Collington avenue.
Sackerman, Louis F.....2007 East Oliver street.
Schweitzer, John W.....1813 Hanover street.
Soine, Carl A.....2809 North Walbrook avenue.
Stewart, Edwin.....30 Cottage avenue.
Stiemke, Martin L.....27 South Caroline street.
Tall, Edward R.....224 Warren avenue.
Thompson, William.....2200 North Caroline street.
Tyler, Edgar F.....12 East Twenty-fourth street.
Waterman, Albert A.....1710 Madison avenue.
Waterman, Sylvan L.....1710 Madison avenue.
Wolfsheimer, Arthur.....1716 McCulloh street.

SEVENTH GRADE—THIRD SECTION.

Aylmer, Albert R.....Windsor avenue, Walbrook.
Armiger, Elmer.....823 South Charles street.
Baehman, Ernest.....202 South Patterson Park avenue.
Boeckel, William J.....1809 Frederick avenue.
Boehme, Frederick W.....1020 North Bond street.
Bouis, Gwynne P.....207 North Poppleton street.
Burton, Franklin B.....662 Pitcher street.
Caltrider, Russell J.....407 Falls road.
Dabrasky, August.....1816 West Pratt street.
Dawson, William E.....321 Girard avenue.
Ephraim, Frank J.....1324 Druid Hill avenue.
Fossett, Charles A.....2213 Eutaw Place.
Gerhold, Harry.....922 Greenmount avenue.
Goodhand, James F.....349 North Calvert street.
Gross, Milton H.....Rossville, Baltimore county.
Hamburger, Lehman H.....1603 Madison avenue.
Hammar, William B.....822 North Gay street.
Hammond, Clarence.....Brooklyn, Anne Arundel county.
Hoerr, John P.....1803 East Fayette street.
Hooper, Thomas S.....1425 Linden avenue.
Howard, Arnold E.....1020 Linden avenue.
Kraus, Henry J.....2223 East McElderry street.
Kuhn, Joseph R.....Poplar Springs, Howard county.
McIntire, Charles A.....1724 North Calhoun street.
Mason, Harry M., Jr.....229 West Lafayette avenue.
Meyers, George A.....8 South Arlington avenue.
Miller, George T.....Walbrook avenue and Eleventh street.
Niles, Hezekiah.....428 East North avenue.
Rebbel, William L.....1705 East Federal street.
Regen, Thomas J.....126 Richmond street.
Rutledge, Harry A.....1006 North Broadway.
Rust, William C.....610 West Baltimore street.
Schultz, Howard I.....646 Mosher street.

SEVENTH GRADE—FOURTH SECTION.

Backhaus, Paul.....702 West Baltimore street.
Blake, William E.....7 East Henrietta street.
Born, Otto C.....1401 North Broadway.
Bowie, Donald McA.....2136 Oak street.
Callahan, Richard A.....343 North street.
Collmus, Solomon.....913 East Madison street.

Cox, William B.....1433 West Lombard street.
Doyle, John B., Jr.....1712 Bolton street.
Dunn, Grover J.....885 West Lombard street.
Euler, Philip.....1031 Pennsylvania avenue.
Fountain, Charles A.....1403 Lanvale street.
Frank, Christian.....1025 South Sharp street.
Gadd, Thomas J.....1717 Hanover street.
Grove, Oscar C.....1231 Pennsylvania avenue.
Hartshorn, Charles E.....1322 West North avenue.
Hess, John A.....129 West Hill street.
Kammer, Robert F.....729 Columbia avenue.
Kraemer, Milton.....225 Clay street.
Krausser, John G.....334 South Smallwood street.
Krausz, Edward A.....115 West Hamburg street.
Lamb, John A.....407 St. Paul street.
Leonard, John M.....303 Montebello avenue.
Miller, John E.....23 East West street.
Petz, John A.....1406 Myrtle avenue.
Pue, Richard B.....428 North Carey street.
Pyle, Harry O.....801 First avenue, Woodberry.
Rahn, Claude J.....1228 North Stricker street.
Reynolds, Martin J.....1034 Hillen street.
Roe, Charles C.....2109 Hollins street.
Schildwacter, Otto.....1839 Pennsylvania avenue.
Schussele, John C.....1903 East Pratt street.
Shafer, Archibald R.....2138 Oak street.
Sondheim, Jack S.....1829 Bolton street.
Sondheim, Sidney S.....1829 Bolton street.
Specknall, Norval H.....Catonsville.
Stump, Walter O.....2505 West Lexington street.
Wells, Elmer.....539 Presstman street.
Wieneke, Charles A.....Park Heights avenue.

THIRD YEAR.

EIGHTH GRADE—FIRST SECTION.

Abercrombie, R. Fulton.....827 North Eutaw street.
Addison, Taylor, Jr.....32 East Henrietta street.
Ahrens, Nathan.....754 North Eutaw street.
Bladin, J. Harry.....507 North Fremont street.
Bouis, M. Dwight.....207 North Poppleton street.
Carson, David, Jr.....2030 Druid Hill avenue.
Collins, John J., Jr.....640 Constitution street.

Cooksey, R. Mavin.....1626 John street.
Cremer, August.....1801 North Gay street.
Crowther, Gwynn.....1503 Linden avenue.
Cumming, J. Pearce.....1221 McCulloh street.
Dall, Robert, Jr.....615 West Barre street.
De Baufre, William L.....1409 Pennsylvania avenue.
Dettelback, Philip.....1921 Druid Hill avenue.
Fitzgerald, Allan D.....1445 Riverside avenue.
Foster, Benjamin F.....613 West Barre street.
Freeman, Edward W.....2548 Druid Hill avenue.
Georgii, Frederick A.....1014 South Charles street.
Gieske, Walter M.....Catonsville.
Goodwin, Thomas C.....407 North Calvert street.
Hastings, Edgar M.....Lutherville, Md.
Koebrich, Charles C.....224 South Eden street.
Mermet, Emile A. B.....824 North Howard street.
Mitchell, Edward H.....995 Frederick avenue, extended.
Norris, Herbert A.....1716 West Lafayette avenue.
Popplein, John T.....Reisterstown, Md.
Prechtel, Otto.....1707 Caroline street.
Roberts, Nelson F.....Grange P. O., Md.
Roe, Charles F.....Forest Hill, Md.
Steeger, George A.....114 North Greene street.
Taylor, Frank H.....1106 Hopkins avenue.
Tinker, C. Harry.....1740 East Baltimore street.
Whiteside, H. Milton.....2426 North Calvert street.
West, George W.....923 Hanover street.
Williams, Walter W.....2011 East Chase street.
Wilson, H. Bertram.....Catonsville.
Wolfsheimer, Edward.....1716 McCulloh street.
Yardley, Charles F.....1916 Park avenue.
Zipp, B. Franklin.....1411 East Madison street.

EIGHTH GRADE—SECOND SECTION.

Bachrach, Arthur M.....1104 Madison avenue.
Benser, Grover.....134 West Hill street.
Berney, Bertram S.....1621 Madison avenue.
Cohen, Malvin S.....1629 Madison avenue.
Conlyn, T. Bryce.....139 Mt. Royal avenue.
Davidson, D. Paul.....2301 Bolton avenue.
Davis, Franklin D.....1728 Park avenue.
Dinneen, John H., Jr.....931 North Calvert street.

Dinneen, Matthew H.....931 North Calvert street.
Eigenbrot, J. Lewis .....49 Wilkins street.
Goldberg, Thomas D.....1249 East Lexington street.
Gross, John H.....1818 North Chester street.
Gunther, Henry C.....654 West Lee street.
Lamble, Frank D.....1944 Linden avenue.
Lautenbach, Ferd., Jr.....500 North Fremont street.
Layman, H. Quimby.....1131 North Carey street.
Lewis, James H.....1907 Bank street.
Linthicum, Joseph B.....402 North Carrollton avenue.
Lyon, Moncure N.....Mt. Wilson, Baltimore county.
Marriott, Thomas M.....1908 White street.
Masterman, Charles J.....715 North Fremont street.
Merz, James C.....11 South Ann street.
Miller, Harry O.....837 Edmondson avenue.
Morton, Dudley J.....2724 North Charles street.
Muehlberger, George C .....942 North Gay street.
Muller, Walter G.....2326 Fairmount avenue.
Reed, Louis F.....226 North Poppleton street.
Reynolds, Henry C.....1715 Druid Hill avenue.
Ridgely, Nevelle R.....Warren, Baltimore county.
Schammel, William F., Jr.....2230 Bank street.
Schroeter, Henry.....2502 Woodbrook avenue.
Shryock, G. Forney.....821 West North avenue.
Smith, Edward J.....2829 Hudson street.
Voneiff, Craft W.....600 North Gilmor street.
Wimbrough, John D.....3181 Hanover street.
Whitcraft, Lewis N.....1302 West Lexington street.

EIGHTH GRADE—THIRD SECTION.

Aiken, Herbert C. J.....2304 North Calvert street.
Aydelott, William B.....334 East Twenty-first street.
Baldwin, Joseph A.....1524 Druid Hill avenue.
Cautley, John B.....311 West Lanvale street.
Davidson, Frederick.....1406 Harford avenue.
Eisenreich, Joseph H.....16 South Washington street.
Fitzgerald, Percy.....1414 Bolton street.
Goode, William F.....2006 Eutaw Place.
Green, Henry Z.....510 Madison street.
Haylick, Thomas.....1417 North Charles street.
Hays, Donald S.....1620 North Calvert street.
Hemelt, Anthony H.....403 South Washington street.

Hess, John S.....1603 East North avenue.
Hogendorf, Raymond.....2116 Bolton avenue.
Koch, William.....1530 Hollins street.
Lehman, Jesse B.....631 North Bond street.
Leisenring, John G. M.....406 North Greene street.
Linthicum, Clarence A.....1633 East North avenue.
Michael, William N.....1028 Edmondson avenue.
Moore, James J.....391 North High street.
Mordecai, D. Harry.....Stevenson P. O., Baltimore county, Md.
Moulton, J. Frank.....1507 Edmondson avenue.
Mueller, Jacob, Jr.....1617 North Wolfe street.
Mulligan, John T.....1011 Eastern avenue.
Neudecker, Leonard H.....634 Euclid avenue.
Rhodes, Edward O.....1417 Eutaw Place.
Rohrbaugh, Emory G.....1110 Barclay street.
Samuel, William S.....1342 Druid Hill avenue.
Schultz, Arthur.....1102 Myrtle avenue.
Schultz, Leonard L.....1708 Harford avenue.
Shields, William H.....1041 West Fayette street.
Simpson, Milton.....1923 Eutaw Place.
Steffens, Edwin A.....234 South Ann street.
Sullivan, Robert W.....115 Montford avenue.
Swayne, John.....824 Canton street.
Toomey, Harry N.....1525 Battery avenue.
Weil, L. Walker.....305 West Presstman street.
Welch, Randolph M.....1155 North Carrollton avenue.

EVENING CLASSES.

The school term for the evening classes begins the first Monday in October. The classes meet Monday, Tuesday, Wednesday, Thursday and Friday evenings from 7.45 to 9.30 P.M. Books and necessary material are furnished free, and there is no charge for tuition.

COURSE OF STUDY.

These courses of study are for the benefit of those who have failed to receive an education and who now realize the material aid an education would give them in securing promotion; and likewise for those boys and young men who are employed during the day and desire to continue their studies to fit themselves for higher positions.

The students who have availed themselves of the privilege of attending these courses are daily engaged as masons, machinists, firemen, agents, clerks, apprentices, office boys, etc., and many of them speak enthusiastically of the benefit they have already derived from the instruction received.

Students attending these courses can select the studies they wish to pursue, though they are advised not to attempt too many at first.

Instruction is given in Arithmetic, Penmanship, Spelling, Reading, Drawing, Carpentry, Wood-turning, Book-keeping, Stenography, Algebra, Geometry and Electricity.

The courses in these subjects are similar to those pursued in the day school, and are taught by the same teachers and by practical draughtsmen.

The manner of instruction is somewhat different; the teacher is able to devote more time to individual instruction; consequently, the bright, active and regular scholars advance rapidly, while the others are not hurried over what they have failed to understand, but are given more time and special instruction.

The classes in Stenography, Elementary Arithmetic, Grammar, Reading and Spelling, which studies are not taught in the day school, receive the same careful attention.

Munson's System of Phonography is taught by an experienced stenographer and competent teacher. The course consists of a study of the theory and practice of Shorthand, Punctuation, Rapid Dictation, Transcript of Stenographic Notes, Reporting and Speeding.

MECHANICAL DRAWING.

FIRST YEAR.

Geometrical problems and orthographic projections.
Sketches and drawings of machine details.

SECOND YEAR.

Projection and intersections of solids and development of surfaces.
Projection of screws, belts, pulleys, gears and gearing.

THIRD YEAR.

Comprising a complete set of sketches with detail drawings and general plan of machine, made from a model by measurement.

ARCHITECTURAL DRAWING.

FIRST YEAR.

Geometrical problems, plane and solid.
Mouldings and timber joints.
Details of construction, sections, etc.

SECOND YEAR.

Structural details, with sections in wood and stone.
Construction of stairs, trusses, arches, etc.
Plans, elevations and sections of houses.

THIRD YEAR.

Orders of architecture and ornament.
A complete set of plans, elevations and sections of a building from an original design.

FREEHAND DRAWING.

FIRST YEAR.

Study of geometrical forms, plane and solid.
Elementary drawing in outline of ornaments and objects from blackboard and models.
Elementary designing and perspective.

SECOND YEAR.

Drawing of groups of geometric solids, ornaments and objects from models.
Shading in charcoal and crayon.
Perspective.

THIRD YEAR.

Study of light and shade from model and cast.
Still-life composition.
Designing.

BOOK-KEEPING.

The course in book-keeping is designed to cover two years, and furnish a complete knowledge of double entry book-keeping, counting-room practice and commercial arithmetic.

Students will be divided into three classes, viz.: Entrance, Intermediate and Graduating; all new pupils will be assigned to the first, from which they will be promoted to the second when their fitness is demonstrated to the teacher. Qualified students will be advanced from the second to the third at the end of the first year, or at any time during the year that they may give evidence of proper ability to take up the work of the third class.

A certificate of proficiency will be awarded as the result of an examination at the end of the second-year course.

STENOGRAPHY.

FIRST YEAR.

Table of Consonants.
Vowel-scale.
Table of Diphthongs.
Ess and Zee Circle.

Method of writing circles between two consonant stems.
The Large Circle.
Hooks—St, Zd and Str.
The Small Circle added to St. and Str.
Rules for use of Ish, Shee, El, Lee, Er, Ree.
Initial Hooks—El and Er.
Special Vocalization.
The Way Hook.
The Yay Hook.
Final Hooks—Ef, Vee, En, Shun, Ter, Thr or Dhr.
Circles and loops added to final hooks.
Lengthening.
Positions of double-length consonants.
Halving.
Positions of half-length consonants.

SECOND YEAR.

Rules for Ly, Ry, Ty, In or Un, Ture.
Rules for Past Tense.
Omission of Vowels.
List of Word Signs.
Prefixes—Com, Con, Cog.
For.
Magna, Magni, Magne.
Self.
Un.
With.
Suffixes—Ble, Bly.
Bleness, Fulness, Iveness, Lessness.
Ever.
For.
Ing.
Mental, Mentality.
Ology.
Self.
Selves.
Ship.
Soever.
Worthy.
Omission of certain Consonants.
Omission of certain Hooks.

THIRD YEAR.

PHRASEOGRAPHY.

Rules for—As, has, is, his or us.
To, it, the.
There, their or they are.
All or will.
Are, our or or.
We.
You or your.
In.
Have or of.
And, an, own, been or than.
There, their, they are or other.
The, it, had or to.
After.
Another.
Its.
Not.

Position of phrase-signe, etc.

Ticks—I, an, a, and.
The, he.

Joining Ticks to Circles.

Omission—Of, to, too.

Type-writing.

ANNUAL REPORTS

—— OF THE ——

REGISTER OF THE CITY

—— AND OF THE ——

COMMISSIONERS OF FINANCE

—— TO THE ——

MEMBERS OF THE FIRST AND SECOND BRANCHES
OF THE CITY COUNCIL OF BALTIMORE,

—— FOR THE ——

FISCAL YEAR ENDING DECEMBER 31st, 1898.

REPORT

— OF —

J. FRANK SUPPLEE,

Register of the City.

REGISTER'S REPORT.

REGISTER'S DEPARTMENT,

BALTIMORE, January 3, 1899.

To the Honorable the Members of the
First and Second Branches of the City Council:

GENTLEMEN: As required by Section 24 of Article 11 of Baltimore City Code of 1893, the Register has the honor of presenting herewith "his account of all moneys received and disbursed by him during the past year;" tables showing the funded and guaranteed debt, December 31, 1898; the productive and unproductive assets of the city; a statement of the surplus of receipts over expenditures existing December 31, 1898; a statement showing the returns of the "keepers of the standards of weights and measures" (as required by Section 50, Article 28, of Baltimore City Code), and also a statement showing the condition of the fund held by the "City Register in trust for property sold for taxes."

The receipts of the treasury from all sources during the fiscal year ending December 31, 1898, as detailed in Statement C of this report were	$11,676,357 36
To which add the cash balance of December 31, 1897	865,502 81
Making a total amount to be accounted for	$12,541,860 17
The total disbursements for the year as detailed in Statement C were	12,048,734 22
Leaving a cash balance on hand December 31, 1898	$493,125 95

FUNDED AND GUARANTEED DEBT.

The funded and guaranteed debt on December 31, 1898, was			$37,570,682 95
The funded and guaranteed debt on December 31, 1897, was			36,170,576 95
Showing an increase during the year of			$1,400,106 00
And is thus explained:			
Issue of Public Improvement Three-and-one-half Per Cent. 1940 Loan		$469,600 00	
Issue of Four Million Three-and-one-half Per Cent. 1945 Loan		940,500 00	
		$1,410,100 00	
Less:			
Water Six Per Cent. 1875 Loan, redeemed	$270 00		
Consolidated Six Per Cent. 1890 Loan, redeemed	9,624 00		
Water Five Per Cent. 1894 Loan, redeemed	100 00		
		9,994 00	
Thus showing the increase to have been			$1,400,106 00

INCREASE OF FUNDED DEBT AUTHORIZED TO BE ISSUED.

Public Improvement Three-and-one-half Per Cent. 1940 Loan, Ordinance 10, 1892	$246,000 00
Four Million Three-and-one-half Per Cent. 1945 Loan, Ordinance 137, 1894	1,639,000 00
Conduit Three-and-one-half Per Cent. 1922 Loan, Ordinance 120, 1896	1,000,000 00
	$2,885,000 00

Besides which there is authorized to be issued:

$1,875,000 of Three-and-one-half Per Cent. Stock by Ordinance 18, 1898, for the purpose of funding the $875,000 Western Maryland Railroad Six Per Cent. Third Mortgage Guaranteed Bonds, maturing January 1, 1900, and $1,000,000 of Western Maryland Railroad Six Per Cent. 1902 Loan, maturing January 1, 1902, and $4,300,000 of Three-and-one-half Per Cent. Stock by Ordinance 32½, 1898, for the purpose of funding the following loans:

$1,000,000 City Hall Six Per Cent. Loan, maturing March 15, 1900.
800,000 Jones Falls " " " " April 9, 1900.
957,000 " " Five " " " " " 9, 1900.
483,000 " " 3.65 " " " " " 9, 1900.
160,000 Jones Falls Three-and-one-half Per Cent. Loan, maturing April 9, 1900.
100,000 Jones Falls Three Per Cent. Loan, maturing April 9, 1900.
800,000 Funding Six Per Cent. Loan, maturing July 1, 1900.

The present sinking funds, with their increment, it is to be hoped will be strictly maintained, as required by law, for the purpose of redeeming the loans comprising the balance of the funded and guaranteed debt, as well as the above-named loans authorized to be issued, as the same may become redeemable.

Your attention is respectfully called to the report of the Commissioners of Finance, showing the condition of the various sinking funds held by them in trust for the redemption of the public debt of the city.

The statements herewith submitted for your investigation are as follows:

A is a statement of the funded and guaranteed debt.

B is a statement of the surplus existing December 31, 1898.

C is a detailed statement of the receipts and expenditures for the past fiscal year, with the appropriations for the various accounts.

D shows the monthly returns of the keepers of the standards of weights and measures.

E shows the condition of the fund held by the City Register in trust for property sold for taxes.

There are several items of the city's financial operations during the year 1898 which are worthy of more than passing attention.

A saving of interest has been effected by avoiding temporary loans as far as possible. The amount expended for interest in 1897 was $23,501.41, and in 1898 $11,812.22, a net difference of $11,689.19.

It is the intention of this department to avoid making any temporary loans during this year, and it is expected that it will be able to meet all demands without borrowing.

All the depository banks now pay 2 per cent. annual interest upon daily balances, payable monthly. This will amount to over $10,000 annually, being a new source of revenue revived during the year under review.

The sinking funds have been strictly maintained according to law, and the sum of $923,331.37 placed to the credit of the funds during the year. Of this aggregate $150,000 was received from the Water Department, being the excess of receipts over expenses of water rents, which was put into the sinking funds in compliance

with Section 8, Article 54, of the Baltimore City Code. The importance of a rigid adherence to this most excellent provision of the Code cannot be too strongly insisted upon. For many years our predecessors neglected this, and the consequent depleted condition of the sinking funds for the redemption of water loans is the result.

City stock has been sold not only for the highest prices, but with the best results ever secured by any American city. December 30, 1898, there was sold, after public advertisement inviting competitive bids, $250,000 Three-and-One-half Per Cent. Conduit 1922 Loan at 110.27, which is a 2.886 per cent. basis; and $250,000 Three-and-One-half Per Cent. Four Million 1945 Loan at 116.27, a 2.865 per cent. basis.

When it is remembered that New York City Three-and-One-half Per Cent. Exempt Bonds sold at public sale thirty days before on a 3.05 basis, the high credit of this municipality is clearly demonstrated.

We have closed the year, after paying all obligations of the city, with a cash surplus of $111,270.76, less $31,000 of deficiencies, leaving a net surplus of $80,270.76—the city being for the first time since 1890 without a floating debt.

In discussing city finances the partisan should be lost in the citizen, and the latter become a patriot free from prejudice. There can be no permanent prosperity in Baltimore without an improvement in the value of real estate, and re-assessment has demonstrated that, while in all other cities real estate has improved in value, ours has actually retrograded in twenty years. The income from real estate, and consequently its value, is largely a question of taxation and proper management of city affairs.

There seems to be a universal sentiment that every possible effort should be made to prevent any increase in the city's funded and guaranteed debt and to keep up the sinking funds, which have been so unwisely neglected in the past. The voters took the bit in their teeth at the last election and ran away with the projected new loan of $4,500,000 for public improvements. A horse that runs away once is very apt to repeat the performance, and by defeating this measure the taxpayers have served notice of their

future intentions. As there can be no legislative enabling acts passed and approved by the people permitting any increase of debt before the November election in 1900, there will be at least a two years' breathing spell for the voters to catch their wind before their next run. The total amount, therefore, that can be added to the funded debt is $2,885,000, of the following loans:

Public Improvement 1940 Loan, $246,000. By resolution of the Court House Commission this amount has been set aside for furnishing the new edifice. Of the Four Million 1945 Loan there remains $1,639,000 unissued. It is calculated that all of this amount will be consumed in the erection of the new Court House and the extension of water supply in 1899, except, $207,500, that being the amount named in the ordinance for parks. Of the Conduit 1922 Loan of $1,000,000 the Subway Commission estimates that $750,000 will be used in 1899, leaving $250,000 for work in 1900.

The increase of receipts from taxes in the Annex in 1900 will, it is hoped, provide funds for paving streets and building new school houses.

The most imperatively demanded public improvement was lost sight of in the defeat of the new loan—that is, a complete and comprehensive sewer system. We are the only city of the first class in the United States that is destitute of a sewerage system, and nothing so seriously militates against our progress and prosperity. The menace to health and fear of a epidemic are not the only inducements for action, but there is in addition the removal of the basin nuisance—that yearly visitation of noxious odors and sickening smells—as well as an annual saving in municipal expense for street cleaning and removal of snow and ice, which can also be effected. On page 61 of the able and exhaustive report of the Sewerage Commission the total cost of completed work of filtration—the only system of disposal of sewage which finds any general support in the community—is put down as $17,451,803. Your Register ventures the opinion that it would not be wise financiering to attempt to add this enormous amount to the total funded debt of the city during the five years consumed in the construction of this great system, even if the revenue derived from it would afterwards pay maintenance, interest and provide sinking funds. If this generation is to see a sewerage system in Baltimore it will probably have to be constructed by private capital.

Your attention is called to the statement of the indebtedness of the Western Maryland Railroad Company to the city, which now amounts to $8,307,811.74. The refunding of $1,875,000 of Six Per Cent. Western Maryland Railroad loans and guaranteed securities into 3½ per cent. stock will, it is promised by the management, enable the company hereafter to meet its entire interest charges to the city.

Under the able and energetic direction of President John M. Hood and its efficient Board of Directors the Western Maryland Railroad is prospering and is a valuable adjunct to the city's trade and commerce. It is respectfully suggested, however, that without undue haste or acting upon unwise or ill-digested plans the management should consider the advisability of finding a cash purchaser for the city's large holdings, thus enabling the municipality to decrease its outstanding obligations and to increase its sinking funds.

No more propitious time could be selected than during the current year, as the city will have to reissue $875,000 of stock in 1900, and $1,000,000 in 1902 for the Western Maryland Railroad Company.

The following correspondence will explain itself:

"*Messrs. John K. Cowen and Oscar G. Murray,*
Receivers B. & O. R. R. Co.:

"GENTLEMEN: Now that the plan of reorganization of the Baltimore and Ohio Railroad Company and its connections have been consummated, I respectfully beg to call your attention to the city's holdings of 10,000 shares of the Valley Railroad Company of Virginia, which cost $1,000,000, and which in the annual report of the Register is listed among the unproductive assets of the city.

"May I respectfully ask whether this stock will have any standing in the company's reorganization and if it could be sold for any reasonable sum in cash? This information is requested for my annual report.

"Thanking you in advance, I have the honor to be
"Yours with respect,
"J. FRANK SUPPLEE, *City Register.*"

"PRESIDENT'S OFFICE B. & O. R. R. Co.,
"BALTIMORE, MD.

"*Col. J. Frank Supplee, City Register:*

"DEAR SIR: Yours of the 12th received. The Valley Railroad is not included in any plan of reorganization of the Baltimore and Ohio Railroad.

"The reorganized Baltimore and Ohio Railroad Company will continue to hold the securities of the Valley Railroad, both stock and bonds, and the status, therefore, of that road is unchanged.

"I do not think this stock could be sold for any reasonable price in cash.

"Yours very truly,
"JOHN K. COWEN, *Receiver.*"

One of the most noticeable features of the daily transfers of city stock is the fact that individual holders are steadily disposing of their stock, which is being absorbed by the banks, trust companies and other corporations. As these flourishing institutions are profiting largely from the non-taxable feature of city stock, it is only fair that they should be willing to pay large premiums for the stock when sold by the city, so as to increase the sinking funds and add their powerful aid in lifting some of the city's heavy burdens.

The Register cannot close his report without expressing his deep sense of obligation to his worthy subordinates for their painstaking devotion to their duties, and particularly to Mr. J. Sewell Thomas, Deputy Register, whose knowledge of the past transactions of the department, during a period of a quarter of a century's connection with it, is invaluable, and whose able and courteous assistance is gratefully appreciated.

Avoiding undue optimism on the one hand and the pessimism, which despairs of all hopeful financial future for our city, it is the opinion of your Register that the city's financial condition is not such as to discourage any of our citizens, and by close municipal economy and careful financiering Baltimore's proud position in the front rank of American cities can be maintained.

Respectfully submitted.

J. FRANK SUPPLEE, *City Register.*

STATEMENTS.

Statement A.—FUNDED AND GUARANTEED DEBT.

FUNDED DEBT.

Name of Loan.	Rate.	When Redeemable.	Amount.
City Hall	6 per ct.	March 15, 1900	$1,000,000 00
Jones Falls	6 "	April 9, 1900	800,000 00
"	5 "	" 9, 1900	957,000 00
"	3 67/100 "	" 9, 1900	483,000 00
"	3½ "	" 9, 1900	160,000 00
"	3 "	" 9, 1900	100,000 00
Funding	6 "	At pleasure after July 1,1900.	800,000 00
W. M. R. R	6 "	January 1, 1902	1,000,000 00
City Hall	6 "	March 7, 1902	500,000 00
Harford Run	4 "	November 3, 1904	350,000 00
Water	5 "	At pleasure after July 1,1916.	5,000,000 00
Funding	5 "	" " July 1,1916.	1,000,000 00
McDonogh Ext	5 "	September 1, 1916	280,000 00
Harford Run	4 "	At pleasure after Jan. 1, 1920.	250,000 00
Patterson Park	4 "	October 1, 1920	200,000 00
Paving	4 "	At pleasure after Nov. 1,1920.	500,000 00
Water	4 "	" " Nov. 1,1922.	500,000 00
W. M. R. R	4 "	July 1, 1925	684,000 00
Water	4 "	At pleasure after Nov. 1,1926.	1,000,000 00
W. M. R. R	3½ "	January 1, 1927	1,704,000 00
Internal Improv't	3½ "	July 1, 1928	4,850,000 00
Consolidated	3½ "	At pleasure after July 1, 1930.	5,000,000 00
Funding	3½ "	July 1, 1936	1,453,300 00
Public Improvm't	3½ "	January 1, 1940	5,754,000 00
Four Million	3½ "	March 1, 1945	2,361,000 08
1860 Stock	6 "	Unredeemed,no int. allowed.	482 00
Water, 1875	6 "	" " "	270 00
Consolidated,1890	6 "	" " "	2,727 50
Five Million	6 "	" " "	2,003 45
Exempt, 1893	6 "	" " "	500 00
Water, 1894	5 "	" " "	3,400 00
		Funded debt	$36,695,682 95

GUARANTEED DEBT.

W. Md. R. R. Six Per Cent. January 1, 1900, (Third Mortgage Bonds)	875,000 00
Total funded and guaranteed debt	$37,570,682 95

Amount brought forward		$37,570,682 95
From which deduct assets of the city—		
Productive.		
Sinking Funds, face value	$5,299,729 85	
Water Works, cost by issue of following Loans	11,930,000 00	
Water Five Per Cent. 1916 Loan, $5,000,000 outstanding.		
Water Five Per Cent. 1894 Loan, $4,000,000 redeemed.		
Water Four Per Cent. 1922 Loan, $500,000 outstanding.		
Water Four Per Cent. 1926 Loan, $1,000,000 outstanding.		
Four Million Three-and-one-half Per Cent. 1945 Loan, $1,430,000 outstanding.		
550 shares of Baltimore and Reisterstown Turnpike Stock	2,062 50	
137 shares of Baltimore and Frederick Turnpike Stock	456 66	
		$17,232,249 01
Net debt		20,338,433 94
Unproductive.		
Accrued interest paid for Western Maryland Railroad Company	$3,743,437 09	
4,000 shares of Western Maryland Railroad Company Stock, cost	200,000 00	
10,000 shares of Valley Railroad Company Stock, cost	1,000,000 00	
130 shares of Baltimore and Havre de Grace Turnpike Stock,		
626 shares of Baltimore and York Turnpike Stock,		
Mortgages on Western Maryland Railroad.	4,263,000 00	
		$9,206,437 09
Besides other property, such as market-houses, court-house, wharf property, City Hall, jail, police-stations, engine-houses and apparatus, school-houses, alms-house, ice-boats, quarantine station, public parks, squares, etc., valued at		$11,500,000 00

Of the total amount of funded and guaranteed debt, interest is provided as follows:		$37,570,682 95
Water Loans of 1916, 1922, 1926 and part of Four Million 1945 Loan ($1,430,000), the interest on which is paid by revenue from water rents	$7,930,000 00	
Patterson Park Extension Loan, on which interest is paid by Park Board	200,000 00	
Part of Four Million 1945 Loan, on which interest is paid by Park Board	792,500 00	
Commissioners of Finance on Western Maryland Railroad Six Per Cent. 1902 Loan	1,000,000 00	
Commissioners of Finance on Western Maryland Railroad Six Per Cent. Third Mortgage Bonds	875,000 00	
W. M. R. R. Co. on Western Maryland Three-and-one-quarter Per Cent. 1927 Loan	1,704,000 00	
Western Maryland Railroad Company, on Western Maryland Railroad Four Per Cent. 1925 Loan	684,000 00	
Overdue Stock, no interest allowed	9,382 95	
		$13,194,882 95
Leaving the amount on which interest is paid by taxation at		$24,375,800 00

Viz.:	$3,100,000 00	interest at 6 per cent.
	2,237,000 00	" " 5 "
	1,100,000 00	" " 4 "
	17,355,800 00	" " $3\frac{1}{2}$ "
	483,000 00	" " $3\frac{55}{100}$ "
	100,000 00	" " 3 "
	$24,375,800 00	

STATEMENT B.

The following statement shows the surplus existing December 31, 1898:

Cash on hand December 31, 1898	$493,125 95	
Due by Conduit 1922 loan	2,791 68	
" Paving Fulton ave	5,628 10	
" Tax Sales	1,271 26	
		$502,816 99
From which deduct—		
Due Water Board	$63,357 72	
" Park Board	5,710 81	
" Paving certificates	37,783 90	
" Harford Run account	3,096 89	
" Free text-book account, white	4,773 02	
" " " " colored	4,026 93	
" Opening streets	49,099 35	
" Paving streets	2,738 35	
" Intestate estates, account of public schools	562 82	
" Rents, account of street openings	427 61	
" Inspection private paving	230 00	
" Dog licenses and fines	26,727 88	
" Four Million 1945 Loan	66,059 63	
" Internal Improvement 1928 Loan	28,653 04	
" Public Improvement 1940 Loan	98,298 28	
		391,546 23
Surplus		$111,270 76

STATEMENT C.

Names of Accounts.	Appropriations.	Face of Ledger. Dr.	Face of Ledger. Cr.	Received From Collector of Taxes.	Received From Other Sources.
Certain Expenses.					
Criminal Court	$70,000 00	$75,713 48			
Baltimore City Court	15,000 00	14,406 74			
Court of Common Pleas	18,000 00	14,332 12	$338 80		$338 80
Superior Court	18,000 00	14,827 65			
Superior Court No. 2	2,000 00	420 00			
Circuit Court	4,200 00	4,301 00			
Circuit Court No. 2	4,200 00	4,069 45			
Orphans' Court	7,000 00	8,722 00			
Judges-at-Large	6,000 00	6,000 00			
Judgments and Suits	5,000 00	6,840 20	186 45		186 45
Coroners	7,100 00	7,041 65			
City Jail, Expenses	27,500 00	27,500 00	6,791 81		6,791 81
City Jail, Salaries	28,500 00	28,500 00			
Magistrates, Salaries	17,500 00	17,332 91			
Supreme Bench	4,500 00	4,659 66			
Criminal Court No. 2	10,000 00	14,273 57			
Baltimore City Court No. 2	2,000 00	3,129 04			
Court of Common Pleas No. 2	1,500 00	843 00	54 00		54 00
Certain Expenses			242,786 06	$242,786 06	
Removed Cases		68 00	638 43		638 43
Preservation Records, Circuit Court No. 2	3,000 00	2,482 65			
	$251,000 00	$255,463 12	$250,795 55	$242,786 06	$8,009 49

Schools.					
Public Schools, Salaries	$970,000 00	$939,815 95	$1,384,033 98	$1,117,085 06	$266,948 92
Public Schools, Expenses	150,000 00	149,951 53	25 90		25 90
Baltimore Polytechnic Institute	33,500 00	32,296 57			
Colored Polytechnic Institute	9,500 00	9,353 85			
Night Schools	10,000 00	9,407 13			
Free Text Books (Levy)	8,000 00	8,000 00			
Free Text Books, White Schools		46,159 61	47,994 00		47,994 00
Free Text Books, Colored Schools		7,402 43	5,697 56		5,697 56
	$1,181,000 00	$1,202,387 07	$1,437,751 44	$1,117,085 06	$320,666 38
Police Department.					
Salaries	$825,292 00	$804,025 70	$833,561 18	$833,561 18	
Expenses	35,000 00	40,651 82			
New Station House in Annex	25,000 00	15,489 85			
	$885,292 00	$860,167 37	$833,561 18	$833,561 18	
Fire Department.					
Salaries	$286,300 00	$286,281 81			
Expenses	120,000 00	119,754 26	$485 32		$485 32
Fire-alarm Box, Federal and Durham streets	175 00	144 62			
Equipping No. 11 Truck House	13,500 00	7,468 51			
	$419,975 00	$413,649 20	$485 32		$485 32

STATEMENT C—Continued.

Names of Accounts.	Appropriations.	Face of Ledger. Dr.	Face of Ledger. Cr.	Received From Collector of Taxes.	Received From Other Sources.
Health Department.					
Salaries	$45,660 00	$45,452 05	$40 66		$40 66
Expenses	12,000 00	12,000 00	35 55		35 55
Quarantine	20,000 00	20,000 00	17,900 89		17,900 89
Board from Insane Patients		57 16	2,118 00		2,118 00
	$77,660 00	$77,509 19	$20,095 10		$20,095 10
Harbor Commission.					
Dredging Harbor	$38,650 00	$26,192 21	$85 75		$85 75
Maintenance and Repairs to Iceboats	20,000 00	19,078 80			
Bulkhead at City Dock	4,783 89	3,393 75			
Repairs to Wharves	1,500 00	1,383 26			
Removal of Ashes	950 00	813 67			
Removal of Floating Matter	3,700 00	2,489 34			
Salaries of Chief Engineer and Clerk	5,000 00	4,588 87			
	$74,583 89	$57,939 88	$85 75		$85 75
Street Cleaning Department.					
Garbage Carts and Men	$111,336 00	$110,451 00	$12 00		$12 00
Street Carts and Men	74,880 00	73,566 00			
Sweepers and Scrapers	88,400 00	88,397 11			
Sweeping Machines, Sprinklers, etc.	21,620 09	21,618 85			
Dumps	2,500 00	2,370 81			

Contingent Fund	500 00	436 89		
Removal of Garbage	4,900 00	4,900 00		
Tools, Repairs, etc	2,500 00	2,237 91		
Salaries	10,000 00	9,828 49		
Sale of Street Dirt			$1,313 65	$1,313 65
	$346,636 09	$343,807 06	$1,325 65	$1,325 65

General Superintendent of Lamps.

Gas	$132,000 00	$120,833 60	$2,130 89	$2,130 89
Electric Lights	168,000 00	167,300 05		
Gasoline	5,500 00	4,546 98		
Lamplighters' Salaries	48,178 00	48,178 00		
Salaries	3,000 00	3,000 00		
Inspection of Gas Meters			1,490 25	$1,490 25
	$356,678 00	$343,858 63	$3,621 14	$3,621 14

Superintendent of Public Buildings.

City Hall Salaries	$17,325 00	$17,324 84		
" " Expenses	11,470 31	11,436 11	$2 13	$2 13
" " Annex, Salaries	2,530 00	2,529 96		
" " " Expenses	3,060 13	3,056 46		
Court House Salaries	4,405 00	4,402 50		
" " Expenses	7,791 85	7,788 58		
	$46,582 29	$46,538 45	$2 13	$2 13

STATEMENT C.—Continued.

Name of Accounts.	Appropriations.	Face of Ledger. Dr.	Face of Ledger. Cr.	Received From Collector of Taxes.	Received From Other Sources.
City Library.					
Salaries	$2,400 00	$2,400 00			
Expenses	7,500 00	6,795 65	$62 00		$62 00
	$9,900 00	$9,195 65	$62 00		$62 00
Commissioners for Opening Streets.					
Salaries	$9,000 00	$9,003 28	$3 28		$3 28
Expenses	200 00	160 26			
	$9,200 00	$9,163 54	$3 28		$3 28
City Collector's Department.					
Salaries	$34,100 00	$30,639 24			
Expenses	3,000 00	2,999 71			
	$37,100 00	$33,638 95			
Appeal Tax Court.					
Salaries	$30,200 00	$25,973 72			
Expenses	1,100 00	1,099 65			
	$31,300 00	$27,073 37			
Liquor License Commission.					
Salaries	$10,800 00	$10,800 00			
Expenses	4,200 00	3,985 43			
	$15,000 00	$14,785 43			

Supervisors of Elections.					
Elections	$18,000 00	$16,203 75			
Registration	51,000 00	50,868 85	$140 12		$140 12
Salaries	10,300 00	10,290 21			
Expenses	1,500 00	1,417 82			
	$80,800 00	$78,780 61	$140 12		$140 12
City Poor.					
Bay View Asylum Salaries	$21,780 60	$21,770 62			
" " Expenses	83,219 40	83,219 40	$1,186 52		$1,186 52
Transportation of Poor	750 00	739 23	76 12		76 12
Friendly Inn	1,000 00	1,000 00			
St. Mary's Industrial School	20,000 00	20,000 00			
Mount Hope Retreat	40,000 00	38,174 04			
Maryland Hospital for the Insane	40,000 00	36,630 07			
Second Hospital for the Insane at Springfield	17,000 00	13,223 59			
Montevue Hospital	150 00	150 00			
House of Refuge	20,000 00	20,000 00			
House of Refuge, Manuel Training School	3,000 00	3,000 00			
House of Reformation	12,000 00	12,000 00			
College of Physicians and Surgeons Hospital	16,900 00	16,493 29			
University of Maryland Hospital	8,000 00	7,999 65			
St. Vincent's Infant Asylum	6,000 00	6,000 00			
St. Elizabeth's Colored Orphan Asylum	3,500 00	3,500 00			
Nursery and Child's Hospital	3,700 00	3,700 00			
Amount carried forward	$297,000 00	$287,599 29	$1,262 64		$1,262 64

STATEMENT C—Continued.

Name of Accounts.	Appropriations.	Face of Ledger. Dr.	Face of Ledger. Cr.	Received from Collector of Taxes.	Received from Other Sources.
Amounts brought forward	$297,000 00	$287,599 29	$1,262 64		$1,262 64
Home of the Friendless	2,100 00	2,100 00			
Industrial Home for Colored Girls	3,000 00	3,000 00			
Female House of Refuge	5,000 00	5,000 00			
Maryland Homeopathic Hospital	3,380 00	3,294 57			
Hospital of the Good Samaritan	3,380 00	2,815 43			
Deaf and Dumb at Frederick	500 00	476 33			
Shelter for the Aged Colored Poor	1,000 00				
Boys' Home Society	3,000 00	3,000 00			
St. Mary's Home for Colored Boys	500 00	500 00			
" Female Orphan Asylum	9,000 00	9,000 00			
St. Joseph's House of Industry	1,600 00	1,584 00			
Baltimore University Hospital	5,000 00	1,666 32			
Maryland General Hospital	8,000 00	7,879 87			
The Simmins' Home	1,000 00				
St. Joseph's Hospital	5,070 00	4,329 45			
St. Agnes' Hospital	4,500 00	4,496 12			
Baltimore Manual Labor School	1,500 00	1,500 00			
St. Vincent de Paul Orphan Asylum	1,600 00	1,600 00			
House of the Good Shepherd for Colored Girls	2,500 00	2,500 00			
Provident Hospital	2,250 00	1,652 86			
General German Orphan Asylum	1,000 00	1,000 00			
Hebrew Hospital and Asylum Association	1,500 00	1,311 40			

Free Baths	500 00	500 00			
Southern Homeopathic Free Dispensary	500 00	500 00			
Northeastern Free Dispensary	1,000 00	1,000 00			
Eastern Free Dispensary	1,000 00	1,000 00			
Baltimore General Free Dispensary	1,000 00	1,000 00			
Southern Free Dispensary	600 00	600 00			
Baltimore Eye, Ear and Throat Charity Hospital Free Dispensary	300 00	300 00			
Evening Dispensary for Working Girls	700 00	575 00			
Baltimore Homeopathic Free Dispensary	300 00	300 00			
City Poor			350,303 37	350,303 37	
St. Martha's Episcopal Home	500 00	500 00			
Home for Crippled and Deformed Children	3,000 00	3,000 00			
Fines		371 90	5,458 09		5,458 09
	$372,780 00	$355,952 54	$357,024 10	$350,303 37	$6,720 73
Inspector of Buildings' Department.					
Salaries	$15,100 00	$15,100 00			
Repairs of School Houses	30,000 00	29,999 50			
" " City Property	15,841 05	15,823 60			
Sanitary and Other Improvements	20,000 00	20,000 00			
Emptying Cesspools	800 00	800 00			
Incidentals	400 00	400 00			
Livery and Transportation	500 00	500 00			
Building Western High School	5,257 45	5,257 45			
" Primary School No. 4	2,118 45	1,290 41			
" Grammar " " 7	38,000 00	37,774 56			
Amounts carried forward	$128,016 95	$126,945 52			

STATEMENT C.—Continued.

Name of Accounts.	Appropriations.	Face of Ledger. Dr.	Face of Ledger. Cr.	Received From Collector of Taxes.	Received From Other Sources.
Amount brought forward	$128,016 95	$126,945 52			
Building Baltimore City College	100,000 00	46,969 59			
" New Truck House	25,000 00	680 39			
" Elevator in City Hall	10,000 00	4,548 70			
Fitting up Room for Additional Judge	200 00	200 00			
Permits for Sheds, Signs, etc.		337 70	$7,756 07		$7,756 07
Building Colored School No. 9	2,158 14	556 00			
	$265,375 09	$180,237 90	$7,756 07		$7,756 07
City Commissioner's Department.					
Repairs of Paved Streets	$99,800 00	$93,641 95	$112 19		$112 19
" " Unpaved "	3,000 00	1,457 84	50 00		50 00
" " Sewers	6,000 00	6,003 90	4,089 19		4,089 19
Repairs of Bridges (including painting)	15,000 00	14,901 29	102 18		102 18
Paving Cross Streets	18,200 00	18,130 17			
" In Front City Property	825 00	825 00			
Flagstones	1,500 00	1,499 56			
Incidentals	500 00	497 43	15		15
Maintenance of Light-street Bridge	5,500 00	5,412 02			
Salaries	30,000 00	30,000 00	260 08		260 08
Rental of Storage Lots	60 36	60 36			
Livery and Transportation	1,500 00	1,500 00			
Advertising	200 00	147 20			
Repairs of Jones' Falls Walls	908 12	908 12			

Inspection of Private Paving		175 50	405 50		405 50
Grade Advertising		336 13	408 00		408 00
Paving Sidewalks, Collington Square	2,000 00	1,808 68			
" in Front Primary School No. 34	175 00	175 00			
Repairing Leak, Greenmount and North Avenues		11 00	11 00		11 00
Draining Pond, Brice Alley and Baker Street		70 91	72 22		72 22
Drain-pipe No. 19 Engine House		26 75	26 75		26 75
Repairs of Drain-pipe No. 4 Truck House		39 41	39 41		39 41
Paving Certificates		9,039 46	13,474 27		13,474 27
Sale of Old Material			18 00		18 00
Board-walk, Streeper Street	400 00	272 70			
Paving Mt. Royal Avenue	42,000 00	39,124 67			
" Fulton Avenue	25,000 00	30,628 10			
" Gay Street	6,000 00	33 89			
" Grant Street	325 00	650 00	325 00		325 00
" Andre Street		2,465 27	11 45	11 45	
" Alley, between Eighth and Ninth Streets		144 97	248 27	248 27	
Paving Alley, between McKim and Hillman Streets		64 58			
Paving Alley, between Robinson and East Avenues			120 84	120 84	
Paving Beason Street		1,407 44			
" Cannon "		2,580 44			
" Chase "					
" Clement "					
" Carey "		1,491 68			
" Calhoun " from Presstman to Baker		800 12	80 54	80 54	
Amount carried forward	$258,893 48	$266,334 54	$19,855 04	$461 10	$19,393 94

STATEMENT C—Continued.

Name of Accounts.	Appropriations.	Face of Ledger. Dr.	Face of Ledger. Cr.	Received from Collector of Taxes.	Received from Other Sources.
Amounts brought forward	$258,893 48	$266,334 54	$19,855 04	$461 10	$19,393 94
Paving Chase Street, from Patterson Avenue to Grove Alley					
Paving Castle Street		1,503 23	1,349 27	1,349 27	
" Collington Avenue		4,174 65	6,166 07	6,166 07	
" Druid Hill "		244 29	258 21	258 21	
" Durham Street		1,643 02	1,655 53	1,655 53	
" Girard Avenue		1,323 52	1,378 20	1,378 20	
" Henry Street		510 99	510 99	510 99	
" Hamburg Street		1,028 94			
" Little Forrest Street			455 70	455 70	
" Marshall Street		27 97			
" Madison "		4,774 88	155 89	155 89	
" Mulberry "		426 74	432 91	432 91	
" North Avenue		1,713 54			
" Payson Street		677 38	720 12	720 12	
" Pulaski "		2,835 07	2,877 89	2,877 89	
" Richardson Street		1,577 90	1,616 40	1,616 40	
" Scott Street		1,885 38	1,812 89	1,812 89	
" Twenty-third Street		3,062 09	3,184 46	3,184 46	
" Twenty-one-and-one-half Street			587 39	587 39	
" Twenty-three-and-one-half Street			530 33	530 33	
" Twenty-first Street		414 63	441 26	441 26	
" Wolfe Street		31 35			

Paving Woodbrook Avenue	200 00	170 89			
Paving McCulloh Alley		38 24			
Paving Forrest Street	100 00	29 59			
Paving Kirby's Lane		1,393 09	1,431 09	1,431 09	
Paving Alley Between Spring and Eden Streets		15 00	5 00	5 00	
	$259,193 48	$295,836 92	$45,421 61	$26,030 70	$19,393 94

Park Commission.

Park Board	$250,931 13	$251,694 98		$251,694 98
Madison Square	1,663 27	1,675 00		1,675 00
Harlem Park	2,496 57	2,500 00		2,500 00
Eastern Fountain	1,005 06	1,050 00		1,050 00
Franklin Square	1,199 40	1,200 00		1,200 00
Union Square	1,300 00	1,300 00		1,300 00
Perkins Spring Square	1,349 32	1,350 00		1,350 00
Park Place Squares	716 18	800 00		800 00
Lafayette Square	1,256 14	1,500 00		1,500 00
Jackson Square	890 20	900 00		900 00
Mt. Vernon Place Squares	1,500 00	1,500 00		1,500 00
Broadway Squares, First Division	1,792 10	1,850 00		1,850 00
Broadway Squares, Second Division	1,684 51	1,700 00		1,700 00
Broadway Squares, Third Division	1,899 80	1,900 00		1,900 00
Eutaw Squares, First Division	1,699 48	1,700 00		1,700 00
Eutaw Squares, Second Division	1,742 88	1,800 00		1,800 00
Ashland Square	113 17	122 00		122 00
Amount carried forward	$273,239 21	$274,541 98		$274,541 98

STATEMENT C.—Continued.

Name of Accounts.	Appropriations.	Face of Ledger. Dr.	Face of Ledger. Cr.	Received From Collector of Taxes.	Received From Other Sources.
Amount brought forward		$273,239 21	$274,541 98		$274,541 98
Wilkens Avenue Squares	$100 00	1,995 85	2,000 00		2,000 00
Fulton " "		1,999 57	2,000 00		2,000 00
Taney Place "		543 15	550 00		550 00
Mt. Royal Avenue "		847 30	1,000 00		1,000 00
	$100 00	$278,625 08	$280,091 98		$280,091 98
General Expenditures.					
City Council Salaries	$18,700 00	$18,699 34			
" " Expenses	11,300 00	11,300 00			
General Expense	2,000 00	2,045 86	$50 00		$50 00
Mayoralty	3,000 00	2,990 67			
Salaries (not otherwise provided for)	53,000 00	52,473 39			
Public Printing	7,000 00	7,748 56	752 73		752 73
Interest on Temporary Loans	20,000 00	12,298 33	486 11		486 11
" " Paving Certificates	1,128 68	1,087 75			
" " Deposits			1,605 64		1,605 64
State Tax on City Loans	48,000 00	48,731 78	7,387 56		7,387 56
Ground Rents on City Property	49,000 00	48,931 83	538 00		538 00
Insurance on City Property	1,000 00	300 00			
Maryland Institute	9,000 00	9,000 00			
Ringing Mechanics' Bells	200 00	200 00			
Winding Maryland Institute Clock	75 00	75 00			
Transportation to House of Correct'n	250 00	320 70			

Dog Pound	1,300 00	997 00	247 52	247 52
Dog Licenses and Fines		4,103 12	34,831 00	34,831 00
General Licenses	1,000 00	652 65	66,947 14	66,947 14
Assistance to Examiner of Titles	1,200 00	525 85		
Hose for Various Markets	500 00	496 90		
Enoch Pratt Free Library Fund	497 50	497 50		
Pension for William H. Ward	260 00	260 00		
Veteran Volunteer Firemen's Ass'n	750 00	750 00		
Water for Fire-plugs at Carroll	250 00	250 00		
New Charter Commission	1,873 10	1,872 14		
In favor of John Kerns, Treasurer	328 98	328 98		
Topographical Survey	10,000 00	3,632 72	102 65	102 65
Sewerage Commission	25,000 00	6,101 29	2 20	2 20
Refund of Taxes	5,000 00	5,017 19		
Biennial Reassessment	32,000 00	31,962 91		
Portrait of Ex-Mayor Hooper	100 00	100 00		
In favor of Henry Bankard	500 00	500 00		
" " " Wm. H. Schilling	200 00			
" " " Thomas B. Bell	300 00	300 00		
City Seal			21 95	21 95
Conscience Fund			70	70
Music in Parks	1,800 00	1,746 00		
Burke Street Rents			10 00	10 00
Ensor " "			362 25	362 25
Holland " "			67 88	67 88
Amount carried forward	$339,813 56	$309,597 46	$113,413 33	$113,413 33

STATEMENT C.—Continued.

Names of Accounts.	Appropriations.	Face of Ledger. Dr.	Face of Ledger. Cr.	Received From Collector of Taxes.	Received From Other Sources.
Amounts brought forward	$339,813 56	$309,597 46	$113,113 33		$113,413 33
Pennsylvania Avenue Rents			55 36		55 36
Broadway Hall		78 97	112 00		112 00
Cross Street Hall		98 80	305 00		305 00
Thanks to M. H. Dyer, U. S. Navy	625 00	625 00			
Hollins Hall		74 09	128 00		128 00
Renumbering Market Stalls	1,500 00	1,214 87			
Entertaining Ancient and Honorable Artillery, 1896	3,700 00	3,678 80			
Interest on Taxes in Arrears			40,679 04	$40,679 04	
Interest on Stock Debt	1,527,270 75	1,526,465 75	1,497,254 73	922,405 98	574,848 75
Intestate Estates		1,362 15	562 82		562 82
Tax on Incomes From Mortgages			10,256 00	10,256 00	
Tax on Securities			164,219 65	164,219 65	
Revenue Stamps		99 00	99 90		99 00
Public Franchise		305 65	353 75		353 75
School Board Litigation	2,716 50	2,716 50			
Tax Sales		3,365 81	4,481 42		4,481 42
Temporary Loans		2,088,000 00	1,269,000 00		1,269,000 00
Turnpike Dividends			190 87		190 87
In Favor of Thomas W. Morse	750 00	750 00			
In Favor of S. C. Malone	200 00	200 00			
In Favor of Dixon Gough	60 00	60 00			
Auction Duties			5,360 51		5,360 51

Wharfage		8,580 64	34,367 51		34,367 51
Telephone Conduits			10,756 02		10,756 02
Liquor Licenses			410,160 10		410,160 10
Water Board		818,519 38	837,856 02		837,856 02
Belair Market		506 70	9,907 35		9,907 35
Canton Market		176 08	493 20		493 20
Centre Market		647 80	5,262 50		5,262 50
Cross Street Market		339 51	4,393 25		4,393 25
Fell's Point Market		568 76	6,710 55		6,710 55
Hanover Market		443 21	3,895 75		3,895 75
Hollins Market		332 30	3,706 80		3,706 80
Lafayette Market		260 28	2,802 05		2,802 05
Lexington Market		661 10	15,276 25		15,276 25
Northeast Market		317 05	1,764 20		1,764 20
Richmond Market		410 75	3,995 40		3,995 40
Direct Tax			1,597,414 11	1,597,414 11	
Water Tax		66 16	66 16	66 16	
Assistant to City Solicitor	41 66	41 66			
	$1,876,677 47	$4,770,564 14	$6,055,298 70	$2,735,040 94	$3,320,257 76

Sinking Funds.

General Sinking Fund	$211,910 27	$211,910 27	$211,910 27	
Water 1916 Sinking Fund	51,229 90	51,229 90	51,229 90	
" 1922 " "	12,807 55	12,807 55	12,807 55	
" 1926 " "	25,732 39	25,732 39	25,732 39	
Internal Improvement 1928 Loan Sinking Fund	77,197 07	77,197 07	77,197 07	
Amounts carried forward	$378,877 18	$378,877 18	$378,877 18	

STATEMENT C.—Continued.

Name of Accounts.	Appropriations.	Face of Ledger. Dr.	Face of Ledger. Cr.	Received from Collector of Taxes.	Received from Other Sources.
Amounts brought forward		$378,877 18	$378,877 18	$378,877 18	
Public Improvement 1940 Loan Sinking Fund		51,464 64	51,464 64	51,464 64	
Four Million 1945 Loan Sinking Fund		12,849 77	12,849 77	12,849 77	
Funding 1936 Loan Sinking Fund		24,104 37	24,104 37	24,104 37	
		$467,295 96	$467,295 96	$467,295 96	
Opening Streets.					
Opening Tenth and Holmes Streets		$4,760 25	$1,437 50	$1,437 50	
" Burrow Street		798 00	525 33	525 33	
" Burke Street		35,717 64	38,041 94	12,563 44	$25,478 50
" Bradford Street		9,132 08	9,537 21	4,031 25	5,505 96
" Curley Street		165 06			
" Baxter Street		240 17			
" Ducatel Street		214 98			
" Chew Street		9,190 25	10,442 19	3,947 93	6,494 26
" Clement Street		4,133 42	1,784 05	1,784 05	
" Collington Avenue		11,282 00	11,373 19	1,466 75	9,906 44
" Castle Street			2,716 23		2,716 23
" Clarkson Alley		50 00	1,007 25	1,007 25	
" Chesapeake Street		25 00	1,065 44	497 25	568 19
Closing West Falls' Lane		82 83			
Opening Ensor Street		1,082 00	150 00	150 00	
" East and Chesnut Street		248 41			

Opening Fremont Avenue	2,412 39	1,291 25	1,291 25		
" Great Constitution Street	2,337 50	2,247 70	444 00	1,803 70	
" Grove Street	79 53	570 00	570 00		
" Glover "	11,700 43	13,697 11	5,017 46	8,679 65	
" Hollins "		160 00		160 00	
" Hoffman "	99 83	460 08	460 08		
" Jefferson "	169 93				
Closing Kirby's Lane	273 92	657 18	657 18		
" " "	98 91				
Opening Ludlow Street	502 74	502 74	502 74		
" Lanvale "	315 00	177 50	177 50		
" Marshall "	128 69	14 00	14 00		
" Morris "	29 25				
" Northwest "	187 63	903 36	903 36		
" Port Alley	10,838 33	5,305 00		5,305 00	
" Pulaski Street		3,530 92		3,530 92	
" Payson "	237 24	5,977 15		5,977 13	
" Patuxent "	18,802 39	34,392 62	6,826 06	27,566 56	
" Port "	10 00	5,936 68	5,305 00	631 68	
" Paca "	61 55	421 89	421 89		
" Stevenson "	3,537 30	3,899 24	2,321 60	1,577 64	
" West "	58 51	202 01	202 01		
" Whitelock "	374 66				
" St. Paul "	121 00				
Opening Streets	104,741 86	104,741 86	87,140 66	87,140 66	
Amounts carried forward	$104,741 86	$234,240 68	$245,567 40	$139,665 54	$105,901 86

STATEMENT C.—Continued.

Name of Accounts.	Appropriations.	Face of Ledger. Dr.	Face of Ledger. Cr.	Received From Collector of Taxes.	Received From Other Sources.
Public Improvement 1940 *Loan.*					
Loan Account		$22,937 50	$492,537 50		$492,537 50
Clifton Avenue Sewer		2,771 92			
Building New Court House		325,125 90			
Furnishing New Court House		874 10			
Broadway Sewer		2,191 94			
Building Baltimore City College		15,435 95			
Vine Street Sewer		1,796 34			
Inlets to Mosher Street Sewer		254 81			
Harris Creek Sewer		7,891 09			
Brice Alley and Mosher Street Sewers		40,895 78	52 15		52 15
Eager Street Sewer		519 10	2 00		2 00
Lanvale and Stricker Street Sewers		17,607 70			
		$438,302 13	$492,591 65		$492,591 65
Four Million 1945 *Loan.*					
Loan Account		$17,250 00	$957,750 00		$957,750 00
Carroll Park Extension		70,221 75			
Extension Water Supply		606,978 42	110 21		110 21
Building New Court House		165,862 97			
		$860,313 14	$957,860 21		$957,860 21

Conduit 1922 Loan.		
Electric Subway Commission		$2,791 68
		$2,791 68

ANNEX ACCOUNTS.

General Superintendent Lamps, Annex.		
Gas	$24,000 00	$22,954 42
Gasoline	9,500 00	8,450 22
Electric Lights	7,000 00	6,555 50
Lamplighters' Salaries	18,304 00	17,731 42
	$58,804 00	$55,691 56
Health Department, Annex.		
Salaries	$3,800 00	$3,799 80
	$3,800 00	$3,799 80
Fire Department, Annex.		
Salaries	$53,900 00	$53,888 03
Expenses	16,000 00	15,931 14
Equipping No. 21 Engine Co.	14,400 00	14,126 32
	$84,300 00	$83,945 49
Inspector of Buildings, Annex.		
Salaries	$1,200 00	$1,200 00
Livery	250 00	250 00
Repairs, City Property	3,500 00	3,500 00
Building No. 21 Engine Co. House	1,059 89	389 65
Amount carried forward	$6,009 89	$5,339 65

STATEMENT C—Continued.

Name of Accounts.	Appropriations.	Face of Ledger. Dr.	Face of Ledger. Cr.	Received from Collector of Taxes.	Received from Other Sources.
Amount brought forward	$6,009 89	$5,339 65			
Building No. 20 Engine House	682 54	679 00			
" Grammar School No. 3	3,143 40	1,110 52			
" " " No. 18	6,000 00	3,892 81			
	$15,835 83	$11,021 98			
Street Cleaning Department, Annex.					
Garbage Carts and Men	$18,720 00	$18,684 00			
Street Carts and Men	8,520 00	8,520 00			
Sweepers and Scrapers	9,619 91	8,868 23			
Salary of Superintendent	1,000 00	1,000 00			
Tools, Repairs, etc	150 00	61 11			
	$38,009 91	$37,133 34			
City Commissioner's Department, Annex.					
Repairs Streets, Roads, Bridges, etc.	$26,800 00	$25,703 96			
Grade Establishments	1,100 00	468 54			
Flagstones	500 00	500 00			
Extension Drain pipe No. 20 Engine House		661 57	$661 57		$661 57
	$28,400 00	$27,334 07	$661 57		$661 57
Direct Tax, Annex			$201,135 33	$201,135 33	
Interest on Taxes			1,349 37	1,349 37	
Tax on Securities			16,341 72	16,341 72	
			$218,826 42	$218,826 42	

Public Schools, Annex.					
Salaries	$146,000 00	$143,292 70			
Expenses	29,700 00	28,397 59	$30 00		$30 00
	$175,700 00	$171,690 29	$30 00		$30 00

STATEMENT C.—Continued.

Name of Accounts.	Appropriations.	Face of Ledger. Dr.	Face of Ledger. Cr.	Received From Collector of Taxes.	Received From Other Sources.
SUMMARY.					
City Accounts.					
Courts, Jail, Magistrates, etc., (certain expenses)	$251,000 00	$255,463 12	$250,795 55	$242,786 06	$8,009 49
Schools	1,181,000 00	1,202,387 07	1,437,751 44	1,117,085 06	320,666 38
Police Department	885,292 00	860,167 37	833,561 18	833,561 18	
Fire Department	419,975 00	413,649 26	485 32		485 32
Health Department	77,660 00	77,509 19	20,095 10		20,095 10
Harbor Commission	74,583 89	57,939 88	85 75		85 75
Street Cleaning Department	346,636 09	343,807 06	1,325 65		1,325 65
General Superintendent of Lamps	356,678 00	343,858 63	3,621 14		3,621 14
Superintendent of Public Buildings	46,582 29	46,538 45	2 13		2 13
City Library	9,900 00	9,195 65	62 00		62 00
Commissioners of Opening Streets	9,200 00	9,163 54	3 28		3 28
City Collector's Department	37,100 00	33,638 95			
Appeal Tax Court	31,300 00	27,073 37			
Liquor License Commission	15,000 00	14,785 43			
Supervisors of Elections	80,800 00	78,780 61	140 12		140 12
City Poor, Hospitals, etc	372,780 00	355,952 54	357,024 10	350,303 37	6,720 73
Inspector of Buildings' Department	265,375 09	180,237 90	7,756 07		7,756 07
City Commissioner's Department	259,193 48	295,836 92	45,424 64	26,030 70	19,393 94
Park Commission	100 00	278,625 08	280,091 98		280,091 98
General Expenditures	1,876,677 47	4,770,564 14	6,055,298 70	2,735,040 94	3,320,257 76
Sinking Funds		467,295 96	467,295 96	467,295 96	

Opening Streets	104,741 86	234,240 68	245,567 40	139,665 54	105,901 86
Public Improvement 1940 Loan		438,302 13	492,591 65		492,591 65
Four Million 1945 Loan		860,313 14	957,860 21		957,860 21
Conduit 1922 Loan		2,791 68			
	$6,701,575 17	$11,658,117 69	$11,456,839 37	$5,911,768 81	$5,545,070 56

Annex Accounts.

General Superintendent of Lamps	$58,804 00	$55,691 56			
Health Department	3,800 00	3,799 80			
Fire Department	84,300 00	83,945 49			
Inspector of Buildings' Department	15,835 83	11,021 98			
Street Cleaning Department	38,009 91	37,133 34			
City Commissioner's Department	28,400 00	27,334 07	$661 57		$661 57
Public Schools	175,700 00	171,690 29	30 00		30 00
Direct Tax			201,135 33	$201,135 33	
Interest on Taxes			1,349 37	1,349 37	
Tax on Securities			16,341 72	16,341 72	
	$404,849 74	$390,616 53	$219,517 99	$218,826 42	$691 57

STATEMENT C—Concluded.

Summary of Totals for City and Annex Accounts.

Name of Accounts.	Appropriation.	Face of Ledger.		Received from Collector of Taxes.	Received from Other Sources.
		Dr.	Cr.		
City Accounts	$6,701,575 17	$11,658,117 69	$11,456,839 37	$5,911,768 81	$5,545,070 56
Annex Accounts	404,849 74	390,616 53	219,517 99	218,826 42	691 57
	$7,106,424 91	$12,048,734 22	$11,676,357 36	$6,130,595 23	$5,545,762 13
Cash Balance December 31, 1897			865,502 81		
Cash Balance December 31, 1898		493,125 95			
	$7,106,424 91	$12,541,860 17	$12,541,860 17	$6,130,595 23	$5,545,762 13

STATEMENT D.

Statement Showing Monthly Returns of the Standard of Weights and Measures from January 1, 1898, to December 31, 1898.

From all Districts.	
January	$9 45
February	5 30
March	1,195 16
April	1,526 86
May	992 74
June	605 44
July	491 17
August	375 26
September	341 61
October	263 45
November	190 00
December	92 45
	$6,088 89

STATEMENT E.

Fund Held in Trust by the City Register for Property Sold for Taxes December 31, 1898.

Consolidated Three-and-a-half Per Cent. 1930 Loan	$10,871 04
Public Improvement Three-and-a-half Per Cent. 1940 Loan.	2,700 00
Water Five Per Cent. 1916 Loan	700 00
Jones Falls Six Per Cent. 1900 Loan	4,000 00
Jones Falls Three-and-sixty-five-one-hundredth Per Cent. 1900 Loan	2,100 00
Cash	592 78
	$20,963 82

REPORT OF THE

DEPARTMENT OF FINANCE

FOR THE YEAR 1898.

REPORT.

DEPARTMENT OF FINANCE,
BALTIMORE, December 31, 1898.

To the Honorable the Members of the First and Second Branches of the City Council of Baltimore:

GENTLEMEN: The Commissioners of Finance have the honor to submit herewith for your consideration statements in detail, exhibiting their transactions during the current year as follows:

1. A summary of receipts and payments on account of the various sinking funds.
2. A statement showing purchases of stock for the sinking funds.
3. A statement of the condition of the various sinking funds.
4. A statement of the condition of the Enoch Pratt Free Library Fund.
5. A statement of the condition of the Horwitz Benevolent Fund.
6. A statement of the condition of the Frederick Raine Fund.
7. A schedule of real estate and ground rents from which income is derived.
8. A balance sheet of sinking funds' ledger.
9. A statement of funded and guaranteed debt.
10. A statement showing the indebtedness of the Western Maryland Railroad Company to the Mayor and City Council of Baltimore.

The matters embraced in the foregoing are exhibited under their respective heads in a detailed form in the appendix to this report.

1.—*Receipts and Payments.*

The receipts were derived from:		
Cash to credit of sinking funds on December 31, 1897	$125,882 04	
Interest on stocks and investments	211,547 15	
Rental of real estate	29,988 18	
" " Hillen Station	16,000 00	
" " Western Maryland Railroad Terminal Company Depot	9,181 47	
Premium on sales of $371,000 Public Improvement Three-and-one-half Per Cent. 1940 Loan	22,937 50	
Premium on sales of $250,000 Four Million Three-and-one-half Per Cent. 1945 Loan.	17,250 00	
City Collector, for General Sinking Fund	211,910 27	
City Collector, for Public Improvement 1946 Loan Sinking Fund	51,464 64	
City Collector, for Internal Improvement 1928 Loan Sinking Fund	77,197 07	
City Collector, for Four Million 1945 Loan Sinking Fund	12,849 77	
City Collector, for Funding 1936 Loan Sinking Fund	24,104 37	
City Collector, for Water 1922 Loan Sinking Fund	12,807 55	
City Collector, for Water 1926 Loan Sinking Fund	25,732 39	
City Collector, for Water 1916 Loan Sinking Fund	51,229 90	
Water Board, on account of surplus	150,000 00	
Park Board, Five Per Cent. on receipts of Park Tax	9,701 89	
Mayor and City Council, for Enoch Pratt Free Library Fund	497 50	
		$1,060,281 69
The payments have been as follows:		
For investment purchases	$789,772 35	
For interest on Western Maryland Railroad Six Per Cent. 1902 Loan	60,000 00	
For interest on Western Maryland Railroad Six Per Cent. Third Mortgage Guaranteed Bonds	52,560 00	
For redemption of Water Six Per Cent. 1875 Stock	270 00	
For redemption of Consolidated Six Per Cent. 1890 Stock	9,624 00	
For redemption of Water Five Per Cent. 1894 Stock	100 00	
For purchase of ground rent under Ordinance No. 81, of 1881	9,000 00	
Amount carried forward	$921,326 35	

Amount brought forward	$921,326 35	
For payment of annuity to Enoch Pratt Free Library	50,000 00	
For certificates for Conduit Three-and-one-half Per Cent. 1922 Loan	475 00	
For advertising for proposals	224 85	
For making plats of city property	350 00	
For ground rent refunded	26 32	
For sundry expenses	491 90	
For payment to public schools for account Frederick Raine Fund	16 35	
For payment to Maryland Institute for account Frederick Raine Fund	16 35	
		972,927 12
Balance to credit of Sinking Funds December 31, 1898		$87,354 57

2.—*Purchases of Stock.*

This statement is submitted in obedience to Section 13, Article 47, of Baltimore City Code, and exhibits in detail the purchases of stock during the current year, amounting to $789,732.88, the total cost of the purchases being $789,772 85.

3.—*The Sinking Funds for the Redemption of the Public Debt.*

General Sinking Fund	$2,271,850 02
Hillen Station Sinking Fund	71,782 71
W. M. R. R. Terminal Company Sinking Fund	27,294 20
W. M. R. R. 1925 Loan Sinking Fund	73,076 73
W. M. R. R. 1927 Loan Sinking Fund	145,820 62
Internal Improvement 1928 Loan Sinking Fund	909,835 07
Public Improvement 1940 Loan Sinking Fund	356,774 49
Four Million 1945 Loan Sinking Fund	144,513 56
Water 1916 Loan Sinking Fund	618,118 12
Water 1922 Loan Sinking Fund	181,079 77
Water 1926 Loan Sinking Fund	325,284 74
Public Park Sinking Fund	10,167 98
Public Park (Clifton) Sinking Fund No. 2	39,383 06
Funding 1936 Loan Sinking Fund	124,748 78
	$5,299,729 85

4.—*Enoch Pratt Free Library Fund.*

This statement shows the condition of the Enoch Pratt Free Library Fund on December 31, 1898, under the control of the Commissioners of Finance, who were required "to invest the interest upon the investments in the sinking fund, and the interest upon the interest, as the same shall be received, in the public debt of the City of Baltimore, until the annual income from said investments shall reach the sum of fifty thousand dollars." In the meantime the Mayor and City Coun-

cil were required to pay the annuity of fifty thousand dollars by tax levy. "When the said annual income upon the investments in the sinking fund shall reach the sum of fifty thousand dollars, the making of said investments for said purpose shall cease, and the said annual income of fifty thousand dollars arising therefrom shall be thereafter appropriated and applied to the payment of the annuity of fifty thousand dollars to the Trustees of the Enoch Pratt Free Library of Baltimore City, and all taxation for the purpose of raising said annuity of fifty thousand dollars for such purpose shall cease and be discontinued."

The above-named law was complied with, and in 1892 taxation, for the purpose mentioned ceased, because the income from investments amounted to $50,341. The redemption of maturing five and six per cent. loans contained in the fund, and the reinvestment of the amount in stock bearing only three-and-a-half per cent. interest has reduced the income to $49,502.50.

It will therefore be necessary for the Mayor and City Council to raise by taxation the sum of $497.50 to supply the deficiency existing in the annual income.

5.—*The Horwitz Benevolent Fund.*

This statement shows the condition of the Horwitz Benevolent Fund under the management of the Commissioners of Finance, who on December 28, 1888, under authority of Resolution No. 7 of 1888, accepted from the executors of Orville Horwitz, deceased, the sum of ten thousand dollars ($10,000), which, with its increments, is in the said last will and testament directed to be known as the "Horwitz Benevolent Fund."

6.—*The Frederick Raine Fund.*

This statement shows the condition of the Frederick Raine Fund under the control of the Commissioners of Finance, who on November 6, 1897, under authority of Resolution No. 51 of 1897, accepted from the executors of the estate of Frederick Raine, deceased, four hundred dollars (and accrued interest amounting to eighteen dollars and seventy cents), which amount has been invested in city stock; "the interest on two hundred dollars thereof to be annually expended for a medal to be known as the Frederick Raine Medal, and to be presented to the student in Baltimore City College who shall be adjudged, by the methods of determining merit practiced in said college, to be most proficient in the study of the German language and German literature," and "the interest on two hundred dollars thereof to be annually expended for a medal known as the Frederick Raine Medal, and to be presented to the student in the Maryland Institute for the Promotion of the Mechanic Arts, who shall be adjudged by the methods of determining merit practiced in said institute, to be most proficient in mechanical drawing;" according to the terms of the last will and testament of said Frederick Raine, deceased.

7.—*Real Estate and Ground Rents.*

The schedule of real estate and ground rents presented in this form for convenience of reference embraces only so much of the city property as is in control and shown upon the books of the Commissioners of Finance, and from which income is derived from rentals.

The income derived from public wharves and market houses being applied to current expenses does not appear in these accounts (Section 14, Article 47, Baltimore City Code).

8.—*Balance Sheet of Sinking Funds' Ledger.*

This statement shows the uninvested cash balance belonging to the sinking funds, which on December 31, 1898, amounted to $87,354.57.

Increment of Sinking Funds.

The increment of the Sinking Funds from December 31, 1897, to December 31, 1898, amounting to			$752,912 87
was derived thus:			
From interest upon investments		$157,443 58	
From rental of Hillen Station	$16,000 00		
Less amount put into Hillen Station Sinking Fund	2,000 00		
		14,000 00	
From rental of Western Maryland Railroad Terminal Company Depot	$9,181 47		
Less amount put into Western Maryland Railroad Terminal Company Sinking Fund	1,311 60		
		7,869 87	
From rental of real estate		29,961 86	
From premium on sales of $371,00 Public Improvement 1940 Loan		22,937 50	
From premiums on sales of $250,000 Four Million 1945 Loan		17,250 00	
From Water Board, on account of surplus		150,000 00	
From City Collector, for sinking funds		467,295 96	
From Park Board, five per cent. on Park Tax from City Passenger Railway Companies		9,701 89	
Amount advanced Conduit 1922 Loan Sinking Fund		587 43	
			877,048 09
From which deduct:			
Interest paid for Western Maryland Railroad Company on Western Maryland Railroad Six Per Cent. 1902 Loan		$60,000 00	
Amounts carried forward		$60,000 00	$877,048 09

Amounts brought forward	$60,000 00	$877,048 09
Interest paid for Western Maryland Railroad Company on Western Maryland Railroad Six Per Cent. Third Mortgage Guaranteed Bonds	52,560 00	
Premium on purchases of stock	39 47	
Water Six Per Cent. 1875 Stock redeemed	270 00	
Consolidated Six Per Cent. 1890 Stock redeemed	9,624 00	
Water Five Per Cent. 1894 Stock redeemed	100 00	
Sundry expenses	1,541 75	
		124,135 22
		$752,912 87

And disbursed as shown by Statement No. 1 of Appendix.

9.—*Funded and Guaranteed Debt.*

The issues of loans on December 31, 1898, amount to		$37,570,682 95
On December 31, 1897, they amounted to		36,170,576 95
Showing an increase during the year of		$1,400,106 00
Thus:		
Amount of Public Improvement 1940 Loan issued	$469,600 00	
Amount of Four Million 1945 Loan issued	940,500 00	
	$1,410,100 00	
Less:		
Water Six Per Cent. 1875 Stock redeemed	$270 00	
Consolidated Six Per Cent. 1890 Stock redeemed	9,624 00	
Water Five Per Cent. 1894 Stock redeemed	100 00	
	9,994 00	
		$1,400,106 00

Increase of Funded Debt Authorized, but not yet issued, and in the City Treasury.

Public Improvement Three-and-one-half Per Cent. 1940 Loan, Ordinance 100, 1892	$246,000 00	
Four Million Three-and-one-half Per Cent. 1945 Loan, Ordinance 137, 1894	1,639,000 00	
Conduit Three-and-one-half Per Cent. 1922 Loan, Ordinance 120, 1896	1,000,000 00	
		2,885,000 00
Besides which the following loans have been authorized to be issued:		
Refunding Three-and-one-half Per Cent. 1940 Loan, Ordinance 32½, 1898	$4,300,000 00	
Amount carried forward	$4,300,000 00	

Amount brought forward	$1,300,000 00	
Refunding Three-and-one-half Per Cent. 1950 Loan, Ordinance 18, 1898	875,000 00	
Refunding Three-and-one-half Per Cent. 1952 Loan, Ordinance 18, 1898	1,000,000 00	
		$6,175,000 00
For the purpose of applying the proceeds of sale of said loans to the redemption of the following:		
City Hall Six Per Cent. 1900 Loan, maturing March 15, 1900	$1,000,000 00	
Jones' Falls Six Per Cent. 1900 Loan, maturing April 9, 1900	800,000 00	
Jones' Falls Five Per Cent. 1900 Loan, maturing April 9, 1900	957,000 00	
Jones' Falls Three-and-sixty-five-one-hundredth Per Cent. 1900 Loan, maturing April 9, 1900	483,000 00	
Jones' Falls Three-and-one-half Per Cent. 1900 Loan, maturing April 9, 1900	160,000 00	
Jones' Falls Three Per Cent. 1900 Loan, maturing April 9, 1900	100,000 00	
Funding Six Per Cent. 1900 Loan, maturing July 1, 1900	800,000 00	
		4,300,000 00
Western Maryland Railroad Six Per Cent. Third Mortgage Guaranteed Bonds, maturing January 1, 1900	$875,000 00	
Western Maryland Railroad Six Per Cent. 1902 Loan, maturing January 1, 1902	1,000,000 00	
		1,875,000 00

The Financial Condition of the Corporation.

Amount of Funded Debt, December 31, 1898		$36,695,682 95
Amount of Guaranteed Debt, December 31, 1898		875,000 00
Total Funded and Guaranteed Debt		$37,570,682 95

Against which the Corporation has the following assets:

Productive.

Sinking Funds, face value	$5,299,729 85	
Water Works, cost by issue of the following loans	11,930,000 00	
Water, 5 Per Cent. 1916 Loan, $5,000,000 outstanding:		
Water, 5 Per Cent. 1894 Loan, $4,000,000 redeemed:		
Amounts carried forward	$17,229,729 85	$37,570,682 05

Amounts brought forward	$17,229,729 85	$37,570,682 05
Water, 4 Per Cent 1922 Loan, $500,000 outstanding;		
Water, 4 Per Cent. 1926 Loan, $1,000,000 outstanding;		
Four Million 3½ Per Cent. 1945 Loan, $1,430,000 outstanding;		
550 Shares of Baltimore and Reisterstown Turnpike Stock	2,062 50	
137 Shares of Baltimore and Frederick Turnpike Company	456 66	
		17,232,249 01
Net debt		$20,338,433 94

Unproductive.

Accrued interest paid for Western Maryland R. R. Co.	$3,743,437 09	
4,000 Shares of W. M. R. R. Co. Stock, cost.	200,000 00	
10,000 Shares of Valley R. R. Co. Stock, cost	1,000,000 00	
130 Shares of Baltimore and Havre de Grace Turnpike Stock;		
625 Shares of Baltimore and York Turnpike Stock;		
Mortgages on Western Maryland Railroad	4,263,000 00	
		9,206,437 09
Besides other property, such as Market-houses, Court House, wharf property. City Hall, jail, police stations, engine-houses and apparatus, school-houses, alms-house, ice-boats, quarantine station, public parks, squares, etc., valued at		11,500,000 00

The foregoing statement does not embrace any items connected with current receipts and disbursements, but refers only to the stock obligations of the corporation, and to investments specially set apart for the redemption of the same. The accounts now submitted for your consideration exhibit in detail all the transactions of the Commissioners of Finance for the past fiscal year.

They show the receipts to have been	$1,060,281 69
And the payments to have been	972,927 12
Balance on deposit in banks to credit of sinking funds December 31, 1898	$87,354 57

The value of the sinking funds on December 31, 1898, is.....		$5,299,729 85
The value of the sinking funds on December 31, 1897, was.....		4,376,398 48
Showing an increase during the year of		$923,331 37
Derived thus:		
Increment of the funds during the year..	$752 912 87	
Ground Rents taken into these accounts from which an income of $10,225.11 is derived, capitalized at 6 Per Cent.....	170,418 50	
		$923,331 37

Sales were made during the year of $21,000 Public Improvement Three-and-one-half Per Cent. 1940 Loan at 106¼, $50,000 of same loan at 106½, and $300,000 of same loan at 106¾. Sales were also made of $50,000 Four Million Three-and-one-half Per Cent. 1945 Loan at 106½, and $200,000 of same loan at 107.

The Commissioners of Finance took during the year $98,600 Public Improvement Three-and-one-half Per Cent. 1940 Loan, and $690,500 Four Million Three-and-one-half Per Cent. 1945 Loan at par.

Sales of $250,000 Four Million Three-and-one-half 1945 Loan at 116.27, and $250,000 Conduit Three-and-one-half Per Cent. 1922 Loan at 110.27, (both deliverable January 3, 1899), were made on December 30, 1898, by public advertisement inviting competitive bids.

Respectfully submitted.

WM. T. MALSTER, *Mayor,*
JOHN B. RAMSAY,
CHRISTIAN DEVRIES,
} *Commissioners of Finance.*

J. FRANK SUPPLEE, *Clerk to Commissioners of Finance.*

APPENDIX.

STATEMENT

DR. THE COMMISSIONERS OF FINANCE IN ACCOUNT WITH

To balance December 31, 1897		$125,882 04
To General Sinking Fund.		
From interest on stocks, bonds and investments	$62,097 58	
From rental of real estate	29,988 18	
From City Collector by tax levy	211,910 27	
From seven-eighths rental of Hillen Stat'n	14,000 00	
From six-sevenths rental of Western Maryland Railroad Terminal Co. Depot.	7,869 87	
		325,865 90
To Public Park Sinking Fund.		
From interest on stock		336 00
To Public Park Sinking Fund No. 2.		
From interest on stock	1,102 50	
From Park Board, being 5 per cent. of receipts of park tax	9,701 89	
		$10,804 39
To Western Maryland Railroad 1925 *Loan Sinking Fund.*		
From interest on stock		2,626 74
To Western Maryland Railroad 1927 *Loan Sinking Fund.*		
From interest on stock		4,911 50
To Western Maryland Railroad Terminal Co. Sinking Fund.		
From interest on stock	$1,044 84	
From one-seventh rent of depot property.	1,311 60	
		2,356 44
To Hillen Station Sinking Fund.		
From interest on stock	$2,872 05	
From one-eighth rent of station property.	2,000 00	
		4,872 05
To Public Improvement 1940 *Loan Sinking Fund.*		
From interest on stock	$10,194 00	
From premium on sales of $371,000 Public Improvement 1940 Loan	22,937 50	
From City Collector by tax levy	51,464 64	
		84,596 14
Amount carried forward		$562,251 20

No. 1.

THE MAYOR AND CITY COUNCIL OF BALTIMORE. CR.

By General Sinking Fund		
For redemption of Water Six Per Cent. 1875 Stock	$270 00	
For redemption of Consolidated Six Per Cent. 1890 Stock	9,624 00	
For redemption of Water Five Per Cent. 1894 Stock	100 00	
For $115,500 Four Million Three-and-one-half Per Cent. 1945 Loan	115,500 00	
For $83,600 Public Improvement Three-and-one-half Per Cent. 1940 Loan	83,600 00	
For $632.88 Consolidated Three-and-one-half Per Cent. 1930 Loan	672 35	
For purchase of ground rent under Ordinance 81, 1881	9,000 00	
For books, seals, etc	316 00	
For clerical assistance	100 00	
For making plats of city property	350 00	
For rent of box at Safe Dep. and Trust Co.	60 00	
For sundry expenses	15 90	
For interest paid on W. M. R. R. Six Per Cent. 1902 Loan	60,000 00	
For interest paid on W. M. R. R. Six Per Cent. Third Mortgage Bonds	52,560 00	
For ground rent refunded, having been collected in error	26 32	
		$332,194 57
By Public Park Sinking Fund No. 2.		
For $10,500 Four Million Three-and-one-half Per Cent. 1945 Loan		10,500 00
By W. M. R. R. 1925 Loan Sinking Fund.		
For $2,500 Four Million Three-and-one-half Per Cent. 1945 Loan		2,500 00
By W. M. R. R. 1927 Loan Sinking Fund.		
For $4,500 Four Million Three-and-one-half Per Cent. 1945 Loan		4,500 00
By W. M. R. R. Ter. Co. Sinking Fund.		
For $2,300 Four Million Three-and-one-half Per Cent. 1945 Loan		2,300 00
By Hillen Station Sinking Fund.		
For $5,200 Four Million Three-and-one-half Per Cent. 1945 Loan		5,200 00
By Public Improvement 1940 Loan Sinking Fund.		
For $88,000 Four Million Three-and-one-half Per Cent. 1945 Loan		88,000 00
Amount carried forward		$445,194 57

STATEMENT

DR. THE COMMISSIONERS OF FINANCE IN ACCOUNT WITH

Amount brought forward		$562,251 20
To Internal Improvement 1928 Loan Sinking Fund.		
From interest on stock	$30,827 76	
From City Collector, by tax levy	77,197 07	
		108,024 83
To Four Million 1945 Loan Sinking Fund.		
From interest on stock	$4,401 25	
From City Collector, by tax levy	12,849 77	
From premium on sale of $250,000 Four Million 1945 Loan	17,250 00	
		34,501 02
To Funding 1936 Loan Sinking Fund.		
From interest on stock	$3,673 25	
From City Collector, by tax levy	24,104 37	
		27,777 62
To Water 1922 Loan Sinking Fund.		
From interest on stock	$5,976 50	
From City Collector, by tax levy	12,807 55	
		18,784 05
To Water 1926 Loan Sinking Fund.		
From interest on stock	$11,769 50	
From City Collector, by tax levy	25,732 39	
		37,501 89
To Water 1916 Loan Sinking Fund.		
From interest on stock	$19,527 00	
From City Collector	51,229 90	
From Water Board, on account of surplus	150,000 00	
		220,756 90
To Enoch Pratt Free Library Fund.		
From interest on stock	$49,502 50	
From Mayor and City Council, by tax levy	497 50	
		50,000 00
Amount carried forward		$1,059,597 51

No. 1—Continued.

THE MAYOR AND CITY COUNCIL OF BALTIMORE.		CR.
Amount brought forward		$445,194 57
By Internal Improvement 1928 *Loan Sinking Fund.*		
For $90,000 Four Million Three-and-one-half Per Cent. 1945 Loan		90,000 00
By Four Million 1945 *Loan Sinking Fund.*		
For $45,500 Four Million Three-and-one-half Per Cent. 1945 Loan	$45,500 00	
For advertising for proposals	112 42	
		45,612 42
By Conduit 1922 *Loan Sinking Fund.*		
For certificates of stock	$475 00	
For advertising for proposals	112 43	
		587 43
By Funding 1936 *Loan Sinking Fund.*		
For $29,000 Four Million Three-and-one-half Per Cent. 1945 Loan		29,000 00
By Water 1922 *Loan Sinking Fund.*		
For $20,300 Four Million Three-and-one-half Per Cent. 1945 Loan		20,300 00
By Water 1926 *Loan Sinking Fund.*		
For $39,700 Four Million Three-and-one-half Per Cent. 1940 Loan		39,700 00
By Water 1916 *Loan Sinking Fund.*		
For $15,000 Public Improvement Three-and-one-half Per Cent. 1940 Loan	15,000 00	
For $237,000 Four Million Three-and-one-half Per Cent. 1945 Loan	237,000 00	
		252,000 00
By Enoch Pratt Free Library Fund.		
For amount of annuity paid Enoch Pratt Free Library		50,000 00
Amount carried forward		$972,394 42

STATEMENT

DR. THE COMMISSIONERS OF FINANCE IN ACCOUNT WITH

Amount brought forward.....	$1,059,597 51
To Horwitz Benevolent Fund.	
From interest on stock.....	670 18
To Frederick Raine Fund.	
From interest on stock.....	14 00
	$1,060,281 69

No. 1.

THE MAYOR AND CITY COUNCIL OF BALTIMORE. CR.

Amount brought forward		$972,394 42
By Horwitz Benevolent Fund.		
For $500 Four Million Three-and-one-half Per Cent. 1945 Loan		500 00
By Frederick Raine Fund.		
For amount paid to Maryland Institute	$16 35	
For amount paid to Board of School Commissioners	16 35	
		32 70
By balance amount in banks to credit of sinking funds December 31, 1898		87,354 57
		$1,060,281 69

STATEMENT No. 2.

Stocks Purchased for Sinking Funds.—*Sections* 13, *Article* 47, *Baltimore City Code.*

Date.	Amount Purchased.	Sinking Fund.	Description of Stock.	Amount Paid.
1898.				
Jan. 14...	$12,000 00	General	Four Million 3½ Per Cent. 1945 Loan	$12,000 00
Jan. 14...	14,000 00	Public Improvement 1940 Loan	Four Million 3½ Per Cent. 1945 Loan	14,000 00
Jan. 14...	5,000 00	Internal Improvement 1928 Loan	Four Million 3½ Per Cent. 1945 Loan	5,000 00
Jan. 14...	13,000 00	Four Million 1945 Loan	Four Million 3½ Per Cent. 1945 Loan	13,000 00
Jan. 14...	5,000 00	Water 1922 Loan	Four Million 3½ Per Cent. 1945 Loan	5,000 00
Jan. 14...	39,000 00	Water 1916 Loan	Four Million 3½ Per Cent. 1945 Loan	39,000 00
Jan. 14...	8,000 00	Water 1926 Loan	Four Million 3½ Per Cent. 1945 Loan	8,000 00
Jan. 14...	4,000 00	Funding 1936 Loan	Four Million 3½ Per Cent. 1945 Loan	4,000 00
Feb. 12...	71 58	General	Consolidated 3½ Per Cent. 1930 Loan	76 05
Feb. 28...	500 00	General	Consolidated 3½ Per Cent. 1930 Loan	535 00
March 9..	30,000 00	General	Four Million 3½ Per Cent. 1945 Loan	30,000 00
March 9..	1,000 00	West'n Maryland R.R. 1925 Loan	Four Million 3½ Per Cent. 1945 Loan	1,000 00
March 9..	2,000 00	West'n Maryland R.R. 1927 Loan	Four Million 3½ Per Cent. 1945 Loan	2,000 00
March 9..	800 00	Western Maryland Terminal Co.	Four Million 3½ Per Cent. 1945 Loan	800 00
March 9..	1,700 00	Hillen Station	Four Million 3½ Per Cent. 1945 Loan	1,700 00
March 9..	15,000 00	Internal Improvement 1928 Loan	Four Million 3½ Per Cent. 1945 Loan	15,000 00
March 9..	2,000 00	Four Million 1945 Loan	Four Million 3½ Per Cent. 1945 Loan	2,000 00
March 9..	3,500 00	Funding 1936 Loan	Four Million 3½ Per Cent. 1945 Loan	3,500 00
March 9..	1,800 00	Water 1922 Loan	Four Million 3½ Per Cent. 1945 Loan	1,800 00
March 9..	4,200 00	Water 1926 Loan	Four Million 3½ Per Cent. 1945 Loan	4,200 00
March 9..	5,000 00	Water 1916 Loan	Four Million 3½ Per Cent. 1945 Loan	5,000 00
March 9..	8,000 00	Public Improvement 1940 Loan	Four Million 3½ Per Cent. 1945 Loan	8,000 00
May 5....	10,000 00	General	Public Improv't 3½ Per Cent. 1940 Loan	10,000 00
May 5....	15,000 00	Water 1916 Loan	Public Improv't 3½ Per Cent. 1940 Loan	15,000 00
May 5....	2,000 00	Internal Improvement 1928 Loan	Four Million 3½ Per Cent. 1945 Loan	2,000 00
May 5....	4,000 00	Public Improvement 1940 Loan	Four Million 3½ Per Cent. 1945 Loan	4,000 00
May 5....	5,000 00	Four Million 1945 Loan	Four Million 3½ Per Cent. 1945 Loan	5,000 00
May 5....	3,000 00	Funding 1936 Loan	Four Million 3½ Per Cent. 1945 Loan	3,000 00
May 5....	2,000 00	Water 1922 Loan	Four Million 3½ Per Cent. 1945 Loan	2,000 00

May 5....	3,000 00	Water 1926 Loan.....	Four Million 3½ Per Cent. 1945 Loan.....	3,000 00
May 5....	6,000 00	Public Park No. 2.....	Four Million 3½ Per Cent. 1945 Loan. ...	6,000 00
June 10...	73,600 00	General	Public Improv't 3½ Per Cent. 1940 Loan..	73,600 00
June 10...	12,000 00	General	Four Million 3½ Per Cent. 1945 Loan.....	12,000 00
June 10...	10,000 00	Water 1926 Loan	Four Million 3½ Per Cent. 1945 Loan.....	10,000 00
June 10...	20,000 00	Public Improvement 1940 Loan..	Four Million 3½ Per Cent. 1945 Loan.....	20,000 00
June 10...	5,000 00	Four Million 1945 Loan.....	Four Million 3½ Per Cent. 1945 Loan.....	5,000 00
June 10...	20,000 00	Water 1916 Loan.....	Four Million 3½ Per Cent. 1945 Loan....	20,000 00
June 10...	5,000 00	Water 1922 Loan.....	Four Million 3½ Per Cent. 1945 Loan.....	5,000 00
June 10...	10,000 00	Funding 1936 Loan.....	Four Million 3½ Per Cent. 1945 Loan.....	10,000 00
June 10...	30,000 00	Internal Improvement 1928 Loan.	Four Million 3½ Per Cent. 1945 Loan.....	30,000 00
July 5....	61 30	General	Consolidated 3½ Per Cent. 1930 Loan.....	61 30
Aug. 2....	17,500 00	Four Million 1945 Loan.....	Four Million 3½ Per Cent. 1945 Loan.....	17,500 00
Nov. 2....	30,500 00	General	Four Million 3½ Per Cent. 1945 Loan.....	30,500 00
Nov. 2....	4,500 00	Public Park No. 2.....	Four Million 3½ Per Cent. 1945 Loan.....	4,500 00
Nov. 2....	1,500 00	West'n Maryland R.R. 1925 Loan.	Four Million 3½ Per Cent. 1945 Loan.....	1,500 00
Nov. 2....	2,500 00	West'n Maryland R.R. 1927 Loan.	Four Million 3½ Per Cent. 1945 Loan.....	2,500 00
Nov. 2....	1,500 00	Western Maryland Terminal Co..	Four Million 3½ Per Cent. 1945 Loan.....	1,500 00
Nov. 2....	3,500 00	Hillen Station.....	Four Million 3½ Per Cent. 1945 Loan.....	3,500 00
Nov. 2....	36,000 00	Public Improvement 1940 Loan..	Four Million 3½ Per Cent. 1945 Loan.....	36,000 00
Nov. 2....	30,000 00	Internal Improvement 1928 Loan.	Four Million 3½ Per Cent. 1945 Loan....	30,000 00
Nov. 2....	1,000 00	Four Million 1945 Loan.....	Four Million 3½ Per Cent. 1945 Loan.....	1,000 00
Nov. 2....	5,500 00	Funding 1936 Loan.....	Four Million 3½ Per Cent 1945 Loan.....	5,500 00
Nov. 2....	4,000 00	Water 1922 Loan.....	Four Million 3½ Per Cent. 1945 Loan.....	4,000 00
Nov. 2....	11,000 00	Water 1926 Loan.....	Four Million 3½ Per Cent. 1945 Loan.....	11,000 00
Nov. 2....	18,000 00	Water 1916 Loan.....	Four Million 3½ Per Cent. 1945 Loan.....	18,000 00
Nov. 2....	500 00	Horwitz Benevolent Fund.....	Four Million 3½ Per Cent. 1945 Loan.....	500 00
Nov. 16...	100,000 00	Water 1916 Loan.....	Four Million 3½ Per Cent. 1945 Loan....	100,000 00
Nov. 23...	2,000 00	Water 1916 Loan.....	Four Million 3½ Per Cent. 1945 Loan.....	2,000 00
Nov. 23...	2,000 00	Water 1926 Loan.....	Four Million 3½ Per Cent. 1945 Loan.....	2,000 00
Nov. 23...	1,000 00	Water 1922 Loan.....	Four Million 3½ Per Cent. 1945 Loan.....	1,000 00
Nov. 23...	2,000 00	Funding 1936 Loan.....	Four Million 3½ Per Cent. 1945 Loan.....	2,000 00
Nov. 23...	1,000 00	Four Million 1945 Loan.....	Four Million 3½ Per Cent. 1945 Loan.....	1,000 00
Nov. 23...	3,000 00	Public Improvement 1940 Loan...	Four Million 3½ Per Cent. 1945 Loan.....	3,000 00
Nov. 23...	4,000 00	Internal Improvement 1928 Loan.	Four Million 3½ Per Cent. 1945 Loan.....	4,000 00
Nov. 23 ..	15,000 00	General	Four Million 3½ Per Cent. 1945 Loan.....	15,000 00
Nov. 25...	50,000 00	Water 1916 Loan.....	Four Million 3½ Per Cent. 1945 Loan.....	50,000 00
Amount forward ...	$758,732 88		*Amount carried forward*.....	$758,772 35

STATEMENT No. 2—Continued.

Stocks Purchased for Sinking Funds, *Section* 13, *Article* 47, *Baltimore City Code.*

Date.	Amount Purchased.	Sinking Fund.	Description of Stock.	Amount Paid.
Brought forward....	$758,732 88		*Amount brought forward*.....	$758,772 35
Dec. 13...	15,000 00	General	Four Million 3½ Per Cent. 1945 Loan.....	15,000 00
Dec. 13...	1,000 00	Funding 1936 Loan.....	Four Million 3½ Per Cent. 1945 Loan.....	1,000 00
Dec. 13...	1,500 00	Water 1926 Loan.....	Four Million 3½ Per Cent. 1945 Loan.....	1,500 00
Dec. 13...	1,500 00	Water 1922 Loan.....	Four Million 3½ Per Cent. 1945 Loan.....	1,500 00
Dec. 13...	3,000 00	Water 1916 Loan.....	Four Million 3½ Per Cent. 1945 Loan.....	3,000 00
Dec. 13...	4,000 00	Internal Improvement 1928 Loan.	Four Million 3½ Per Cent. 1945 Loan.....	4,000 00
Dec. 13...	3,000 00	Public Improvement 1940 Loan..	Four Million 3½ Per Cent. 1945 Loan.....	3,000 00
Dec. 13...	1,000 00	Four Million 1945 Loan.....	Four Million 3½ Per Cent. 1945 Loan.....	1,000 00
Dec. 22...	1,000 00	General	Four Million 3½ Per Cent. 1945 Loan.....	1,000 00
	$789,732 88			$789,772 35

RECAPITULATION.

Sinking Fund.	Amount Purchased.	Description of Stock.	Amount Paid.
General	$632 88	Consolidated Three-and-one-half Per Cent. 1930 Loan	$672 35
"	83,600 00	Public Imp. Three-and-one-half Per Cent. 1940 Loan	83,600 00
"	115,500 00	Four Million Three-and-one-half Per Cent. 1945 Loan	115,500 00
Water 1916 Loan	15,000 00	Public Imp. Three-and-one-half Per Cent. 1940 Loan	15,000 00
"	237,000 00	Four Million Three-and-one-half Per Cent. 1945 Loan	237,000 00
Water 1922 Loan	20,300 00	Four Million Three-and-one-half Per Cent. 1945 Loan	20,300 00
" 1926 "	39,700 00	Four Million Three-and-one-half Per Cent. 1945 Loan	39,700 00
Public Imp. 1940 Loan	88,000 00	Four Million Three-and-one-half Per Cent. 1945 Loan	88,000 00
Internal Imp. 1928 Loan	90,000 00	Four Million Three-and-one-half Per Cent. 1945 Loan	90,000 00
Four Million 1945 Loan	45,500 00	Four Million Three-and-one-half Per Cent. 1945 Loan	45,500 00
Funding 1936 Loan	29,000 00	Four Million Three-and-one-half Per Cent. 1945 Loan	29,000 00
W. M. R. R. 1925 Loan	2,500 00	Four Million Three-and-one-half Per Cent. 1945 Loan	2,500 00
" 1927 "	4,500 00	Four Million Three-and-one-half Per Cent. 1945 Loan	4,500 00
" Ter. Co.	2,300 00	Four Million Three-and-one-half Per Cent. 1945 Loan	2,300 00
Hillen Station	5,200 00	Four Million Three-and-one-half Per Cent. 1945 Loan	5,200 00
Public Park No. 2	10,500 00	Four Million Three-and-one-half Per Cent. 1945 Loan	10,500 00
Horwitz Benevolent Fund.	500 00	Four Million Three-and-one-half Per Cent. 1945 Loan	500 00
	$789,732 88		$789,772 35

STATEMENT No. 3.

CONDITION OF SINKING FUNDS DECEMBER 31, 1898.

General Sinking Fund.

City Hall Six Per Cent. 1900 Loan	$28,600 00	
" " " " " 1902 "	6,500 00	
Western Maryland Railroad Six Per Cent. 1902 Loan	6,400 00	
Funding Six Per Cent. 1900 Loan	3,500 00	
Jones' Falls Six Per Cent. 1900 Loan	11,000 00	
Western Maryland Railroad Six Per Cent. Third Mortgage Guaranteed Bonds (Registered)	17,000 00	
		$73,000 00
Jones' Falls Five Per Cent. 1900 Loan	$5,100 00	
Funding " " " 1916 "	1,500 00	
		6,600 00
Harford Run Four Per Cent. 1904 Loan	$1,700 00	
" " " " " 1920 "	300 00	
Paving " " " 1920 "	5,000 00	
		7,000 00
Jones' Falls Three-and-sixty-five-one-hundredth Per Cent. 1900 Loan		800 00
Consolidated Three-and-one-half Per Cent. 1930 Loan	8,162 37	
Public Improvement Three-and-one-half Per Cent. 1940 Loan	734,300 00	
Four Million Three-and-one-half Per Cent. 1945 Loan	121,100 00	
		863,562 37
Western Maryland Railroad Six Per Cent. First Mortgage Bonds, due January 1, 1890		43,500 00
Western Maryland Railroad Six Per Cent. Second Preferred Mortgage Bonds, due January 1, 1895		178,500 00
Western Maryland Railroad Six Per Cent. Funding Certificates		226,530 00
Western Maryland Railroad Unendorsed Coupons from First Mortgage Bonds		71,742 00
Hillen Station Property	$200,000 00	
Less amount in Sinking Fund for repayment of cost thereof	71,782 71	
		128,217 29
Western Maryland Railroad Terminal Company Depot Property	$131,163 81	
Less amount in Sinking Fund for repayment of cost thereof	27,294 20	
		103,869 61
Ground rents taken into these accounts amounting to $10,225.11, capitalized at six per cent		170,418 50
Ground rents purchased under Ordinance No. 81, of 1881		347,985 27
Cash		50,124 98
		$2,271,850 02

Hillen Station Sinking Fund.

City Hall Six Per Cent. 1900 Loan	$2,900 00	
" Six Per Cent. 1902 "	300 00	
Western Maryland Railroad Six Per Cent. 1902 Loan	5,700 00	
Jones' Falls Six Per Cent. 1900 Loan	2,800 00	
Funding Six Per Cent. 1900 Loan	1,000 00	
		$12,700 00
Western Maryland Railroad Six Per Cent. Third Mortgage Guaranteed Bond (Coupon)		500 00
Jones' Falls Five Per Cent. 1900 Loan	$8,000 00	
Funding Five Per Cent. 1916 Loan	2,000 00	
		10,000 00
Paving Four Per Cent. 1920 Loan		3,000 00
Jones' Falls Three-and-sixty-five-one-hundredth Per Cent. 1900 Loan		3,200 00
Consolidated Three-and-one-half Per Cent. 1930 Loan	$4,700 00	
Public Improvement Three-and-one-half Per Cent. 1940 Loan	30,300 00	
Four Million Three-and-one-half Per Cent. 1945 Loan	7,300 00	
		12,300 00
Cash		82 71
		$71,782 71

Western Maryland Railroad Terminal Company Sinking Fund.

City Hall Six Per Cent. 1900 Loan	$1,000 00	
" Six Per Cent. 1902 Loan	100 00	
Western Maryland Railroad Six Per Cent. 1902 Loan	1,100 00	
Funding Six Per Cent. 1900 Loan	1,000 00	
Jones' Falls Six Per Cent. 1900 Loan	1,200 00	
		$1,400 00
Western Maryland Railroad Six Per Cent. Third Mortgage Guaranteed Bonds (Coupon)		1,000 00
Jones' Falls Three-and-sixty-five-one-hundredth Per Cent. 1900 Loan		900 00
Consolidated Three-and-one-half Per Cent. 1930 Loan	$3,300 00	
Public Improvement Three-and-one-half Per Cent. 1940 Loan	14,700 00	
Four Million Three-and-one-half Per Cent. 1945 Loan	2,700 00	
		20,700 00
Cash		294 20
		$27,294 20

Western Maryland Railroad 1925 *Loan Sinking Fund.*

Western Maryland Railroad Six Per Cent. Third Mortgage Guaranteed Bonds, (Coupon)		$500 00
Western Maryland Railroad Four Per Cent. 1925 Loan		31,100 00
Consolidated Three-and-one-half Per Cent. 1930 Loan	$11,900 00	
Public Improvement Three-and-one-half Per Cent. 1940 Loan	11,800 00	
Four Million Three-and-one-half Per Cent. 1945 Loan	2,500 00	
		26,200 00
Western Maryland Railroad Three-and-one-quarter Per Cent. 1927 Loan		15,100 00
Cash		176 73
		$73,076 73

Western Maryland Railroad 1927 *Loan Sinking Fund.*

Western Maryland Railroad Third Mortgage Guaranteed Bonds (Coupon)		4,500 00
Western Maryland Railroad Three-and-one-quarter Per Cent. 1927 Loan		121,000 00
Consolidated Three-and-one-half Per Cent. 1930 Loan	1,700 00	
Public Improvement Three-and-one-half Per Cent. 1940 Loan	13,700 00	
Four Million Three and one-half Per Cent. 1945 Loan	4,500 00	
		19,900 00
Cash		420 62
		$145,820 62

Internal Improvement 1928 *Loan Sinking Fund.*

Jones' Falls Six Per Cent. 1900 Loan	$20,700 00	
Funding " " " 1900 "	9,800 00	
City Hall " " " 1900 "	12,600 00	
" " " " 1902 "	5,400 00	
Western Maryland Railroad Six Per Cent. 1902 Loan	11,700 00	
		$60,200 00
Jones' Falls Five Per Cent. 1900 Loan	$1,200 00	
Funding " " " 1916 "	8,900 00	
		10,100 00
Harford Run Four Per Cent. 1920 Loan	$7,700 00	
Western Maryland Railroad Four Per Cent. 1925 Loan	10,300 00	
		18,000 00
Amount carried forward		$88,300 00

Amount brought forward		$88,300 00
Jones' Falls Three-and-sixty-five-one-hundredth Per Cent. 1900 Loan		7,500 00
Western Maryland Railroad Three-and-one-quarter Per Cent. 1927 Loan		76,000 00
Internal Improvement Three-and-one-half Per Cent. 1928 Loan	$186,100 00	
Consolidated Three-and-one-half Per Cent. 1930 Loan	8,000 00	
Public Improvement Three-and-one-half Per Cent. 1940 Loan	329,100 00	
Four Million Three-and-one-half Per Cent. 1945 Loan	202,500 00	
		725,700 00
Cash		12,335 07
		$909,835 07

Public Improvement 1940 *Loan Sinking Fund.*

Public Improvement Three-and-one-half Per Cent. 1940 Loan	$252,900 00	
Four Million Three-and-one-half Per Cent. 1945 Loan	88,000 00	
		$340,900 00
Western Maryland Railroad Three-and-one-quarter Per Cent. 1927 Loan		9,000 00
Cash		6,874 49
		$356,774 49

Four Million 1945 *Loan Sinking Fund.*

Public Improvement Three-and-one-half Per Cent. 1940 Loan	$69,200 00	
Four Million Three-and-one-half Per Cent. 1945 Loan	74,300 00	
		$143,500 00
Cash		1,013 56
		$144,513 56

Water 1916 *Loan Sinking Fund.*

Water Five Per Cent. 1916 Loan	$323,100 00	
Funding Five Per Cent. 1916 Loan	5,700 00	
		$328,800 00
Public Improvement Three-and-one-half Per Cent. 1940 Loan	$44,200 00	
Four Million Three-and-one-half Per Cent. 1945 Loan	237,000 00	
		281,200 00
Cash		8,118 12
		$618,118 12

Water 1922 *Loan Sinking Fund.*

Water Five Per Cent. 1916 Loan		$3,400 00
Public Improvement Three-and-one-half Per Cent. 1940 Loan	$155,700 00	
Four Million Three-and-one-half Per Cent. 1945 Loan	21,100 00	
		176,800 00
Cash		879 77
		$181,079 77

Water 1926 *Loan Sinking Fund.*

Funding Six Per Cent. 1900 Loan		$17,200 00
Water Five Per Cent. 1916 Loan		59,900 00
" Four " " 1926 "		4,200 00
Western Maryland Railroad Three-and-one-quarter Per Cent. 1927 Loan		22,200 00
Consolidated Three-and-one-half Per Cent. 1930 Loan	$31,600 00	
Public Improvement Three-and-one-half Per Cent. 1940 Loan	147,600 00	
Four Million Three-and-one-half Per Cent. 1945 Loan	39,700 00	
		218,900 00
Cash		2,884 74
		$325,284 74

Public Park Sinking Fund.

Public Improvement Three-and-one-half Per Cent. 1940 Loan		$9,600 00
Cash		567 98
		$10,167 98

Public Park Sinking Fund No. 2.

Public Improvement Three-and-one-half Per Cent. 1940 Loan	$15,300 00	
Four Million Three-and-one-half Per Cent. 1945 Loan	23,700 00	
		$39,000 00
Cash		$383 06
		$39,383 06

Funding 1936 *Loan Sinking Fund.*

Public Improvement Three-and-one-half Per Cent. 1940 Loan	$13,300 00	
Four Million Three-and-one-half Per Cent. 1945 Loan	108,400 00	
		$121,700 00
Cash		3,048 78
		$124,748 78

RECAPITULATION.

Face Value of Sinking Funds.

General Sinking Funds	$2,271,850 02
Hillen Station Sinking Fund	71,782 71
Western Maryland Railroad Terminal Company Sinking Fund	27,294 20
Western Maryland Railroad 1925 Loan Sinking Fund	73,076 73
" " " 1927 " " "	145,820 62
Internal Improvement 1928 Loan Sinking Fund	909,835 07
Public " 1940 " " "	356,774 49
Four Million 1945 Loan Sinking Fund	144,513 56
Water 1916 Loan Sinking Fund	618,118 12
" 1922 " " "	181,079 77
" 1926 " " "	325,284 74
Public Park Sinking Fund	10,167 98
Public Park (Clifton) Sinking Fund No. 2	39,383 06
Funding 1936 Loan Sinking Fund	124,748 78
	$5,299,729 85

STATEMENT No. 4.

CONDITION OF THE ENOCH PRATT FREE LIBRARY FUND, HELD IN TRUST BY THE COMMISSIONERS OF FINANCE, AS PER ORDINANCE No. 64 OF 1883, ON DECEMBER 31, 1898.

Funding Six Per Cent. 1900 Loan	$16,900 00	
City Hall Six Per Cent. 1900 Loan	35,700 00	
City Hall Six Per Cent. 1902 Loan	6,500 00	
Western Maryland Railroad Six Per Cent. 1902 Loan	21,300 00	
Jones' Falls Six Per Cent. 1900 Loan	11,300 00	
		$91,700 00
Western Maryland Railroad Six Per Cent. Third Mortgage Guaranteed Bonds (Registered)		10,000 00
Water Five Per Cent. 1916 Loan	$54,300 00	
Funding Five Per Cent. 1916 Loan	2,500 00	
Jones' Falls Five Per Cent. 1900 Loan	81,200 00	
		138,000 00
Paving Four Per Cent. 1920 Loan	$62,300 00	
Patterson Park Four Per Cent. 1920 Loan	195,000 00	
Water Four Per Cent. 1922 Loan	500,000 00	
Western Maryland Railroad Four Per Cent. 1925 Loan	2,100 00	
Harford Run Four Per Cent. 1920 Loan	900 00	
Water Four Per Cent. 1926 Loan	1,000 00	
		761,300 00
Consolidated Three-and-one-half Per Cent. 1930 Loan	$113,200 00	
Internal Improvement Three-and-one-half Per Cent. 1928 Loan	13,200 00	
Public Improvement Three-and-one-half Per Cent. 1940 Loan	42,700 00	
		169,100 00
Western Maryland Railroad Three-and-one-quarter Per Cent. 1927 Loan		4,000 00
		$1,174,100 00

STATEMENT No. 5.

CONDITION OF THE HORWITZ BENEVOLENT FUND, HELD IN TRUST BY THE COMMISSIONERS OF FINANCE, AS PER RESOLUTION 7 OF 1888, ON DECEMBER 31, 1898.

Funding Six Per Cent. 1900 Loan	$1,800 00	
City Hall Six Per Cent. 1900 Loan	1,300 00	
Western Maryland Railroad Six Per Cent. 1902 Loan	5,300 00	
Jones' Falls Six Per Cent. 1900 Loan	200 00	
		8,600 00
Water Five Per Cent. 1916 Loan		400 00
Western Maryland Railroad Four Per Cent. 1925 Loan		300 00
Jones' Falls Three-and-sixty-five-one-hundredth Per Cent. 1900 Loan		100 00
Public Improvement Three-and-one-half Per Cent. 1940 Loan	3,000 00	
Four Million Three-and-one-half Per Cent. 1945 Loan	500 00	
		3,500 00
Westen Maryland Railroad Three-and-one-quarter Per Cent. 1927 Loan		200 00
Cash		224 99
		$13,324 99

STATEMENT No. 6.

CONDITION OF FREDERICK RAINE FUND, HELD IN TRUST BY THE COMMISSIONERS OF FINANCE, AS PER RESOLUTION No. 51 OF 1897, ON DECEMBER 31, 1898.

Public Improvement Three-and-one-half Per Cent. 1940 Loan	$400 00

STATEMENT No. 7.

A Schedule of Real Estate and Ground Rents Upon the Books of the Commissioners of Finance.

Lessees.	*Location of Lots.*	*Annual Rental.*
William E. Banks	Nos. 9,10,11 and 12 President street.	$452 25
Merchants & Miners' Transportation Co.	Nos. 24, 25, 26, 27, 28 and 29 s. s. Block street	910 88
C. S. Maltby Co	Nos. 5, 6, 7 and 8 n. s. Block street	293 60
Sisters of Mercy	Calvert Street Spring lot	1,000 00
Baltimore & Philadelphia Steamboat Co.	200 feet Pratt st. Wharf nr. Light st.	3,600 00
Platt & Co.	Old Fish House property	1,457 00
E. B. Hunting & Co.	Nos. 5, 6, 7 and 8 President street.	502 50
Catharine Hickman	Fayette and Arch streets	52 00
Boys' Home Society	Pleasant and Calvert streets	50 00
James Clark Co.	Old City Yard property	497 25
Baltimore Dredging Co.	" " " "	480 00
Sarah A. Vogt	Battery avenue	157 50
John G. Huck	Charles and Weyler streets	75 70
Sophia M. Kelly	Nos. 5, 7 and 9 Weyler street	150 00
Aaron Hess	No. 11 Weyler street	33 60
John F. Weyler	" 13 " "	19 20
Joseph Felser	" 15 " "	26 32
Samuel Weil	" 17 " "	26 32
Ida Young	Nos. 19 and 21 Weyler street	52 64
Charles H. Oehm	No. 23 Weyler street	26 32
H. Klasmeier	" 25 " "	25 48
Sophia Kessler	" 27 " "	26 32
Mary A. Steen	Nos. 31 and 33 Weyler street	52 64
Frederick Kull	No. 35 Weyler street	19 20
George Wimmer	" 37 " "	20 32
Simon Abeles & Co.	Nos. 39 and 41 Weyler street	54 49
J. A. J. Goetze	No. 43 Weyler street	29 60
August Pfeil	" 45 " "	29 60
Elizabeth Schott	" 49 " "	26 32
August Pfeil	Light and Weyler streets	78 06
Capitalized at 6 Per Cent., $170,418.50.		$10,225 11

PURCHASED BY AUTHORITY OF ORDINANCE No. 81 of 1881.

Amount brought forward.....				$10,225 11
John E. Semmes...	Park ave. near Preston st.	$549 00		
Mayor and City Council.	Hollins and Monroe sts..	750 00		
" "	Howard and Little Montgomery streets.....	120 00		
" "	Penna. ave. and Robert st.	86 00		
" "	Frederick and Fairview avenues.	360 00		
" "	Waesche near Fremont st.	180 00		
" "	Castle street.....	209 25		
" "	Hanover and Lee sts.....	210 00		
" "	Sharp and West sts.....	570 00		
" "	Argyle ave. nr. Lanvale st.	120 00		
" "	Hull and Clement sts.....	350 00		
" "	Linden av. and Wilson st.	840 00		
" "	Charles and Ostend sts....	372 50		
" "	Ann and Chase sts.....	501 75		
" "	Howard st. opp. Centre st.	1,000 00		
" "	Preston and Eden sts....	80 00		
" "	Broadway and Bank sts..	200 00		
" "	Mosher and Gilmor sts...	757 00		
" "	Northeast Market.....	1,200 00		
" "	Collington Square.....	960 00		
" "	Perkins Spring Square...	2,052 00		
" "	Riverside Park	3,770 62		
" "	Holliday and Fayette sts.	56 00		
" "	Lexington and Paca sts...	228 00		
" "	Bond and Chew sts	130 00		
" "	Carey st. and Columbia av.	385 00		
" "	Chappell st. nr. Carey st..	630 00		
" "	Cross-street Market.....	974 00		
" "	Linden ave. and Konig st.	1,155 00		
" "	Balto. st. near Aisquith..	150 00		
" "	Lombard st. near High...	150 00		
" "	Rogers ave. and Low st...	540 00		
				$19,936 12
(Purchased at a cost of $347,985.27).				$30,161 23

STATEMENT No. 8.

BALANCE SHEET OF SINKING FUND'S LEDGER, DECEMBER 31, 1898.

	Dr.	Cr.
General Sinking Fund		$50,124 98
Public Park Sinking Fund		567 98
Public Park No. 2 (Clifton) Sinking Fund		383 06
Redemption of Five Million 1890 Loan		2,003 45
Western Maryland Railroad 1925 Loan Sinking Fund		176 73
Western Maryland Railroad 1927 Loan Sinking Fund		420 62
Western Maryland Terminal Company Sinking Fund		294 20
Hillen Station Sinking Fund		82 71
Public Improvement 1940 Loan Sinking Fund		6,874 49
Internal Improvement 1928 Loan Sinking Fund		12,335 07
Four Million 1945 Loan Sinking Fund		1,013 56
Funding 1936 Loan Sinking Fund		3,048 78
Water 1922 Loan Sinking Fund		879 77
Water 1926 Loan Sinking Fund		2,884 74
Water 1916 Loan Sinking Fund		8,118 12
Conduit 1922 Loan Sinking Fund	$2,078 68	.....
Horwitz Benevolent Fund		224 99
Balance	87,354 57	.....
	$89,433 25	$89,433 25

Statement No. 9.—FUNDED AND GUARANTEED DEBT.

FUNDED DEBT.

Name of Loan.	Rate.	When Redeemable.	Amount.
City Hall	6 per ct.	March 15, 1900	$1,000,000 00
Jones Falls	6 "	April 9, 1900	800,000 00
"	5 "	" 9, 1900	957,000 00
"	3 65/100 "	" 9, 1900	483,000 00
"	3½ "	" 9, 1900	160,000 00
"	3 "	" 9, 1900	100,000 00
Funding	6 "	At pleasure after July 1,1900.	800,000 00
W. M. R. R.	6 "	January 1, 1902	1,000,000 00
City Hall	6 "	March 7, 1902	500,000 00
Harford Run	4 "	November 3, 1904	350,000 00
Water	5 "	At pleasure after July 1,1916.	5,000,000 00
Funding	5 "	" " July 1,1916.	1,000,000 00
McDonogh Ext.	5 "	September 1, 1916	280,000 00
Harford Run	4 "	At pleasure after Jan. 1, 1920.	250,000 00
Patterson Park	4 "	October 1, 1920	200,000 00
Paving	4 "	At pleasure after Nov. 1,1920.	500,000 00
Water	4 "	" " Nov. 1,1922.	500,000 00
W. M. R. R.	4 "	July 1, 1925	684,000 00
Water	4 "	At pleasure after Nov. 1,1926.	1,000,000 00
W. M. R. R.	3½ "	January 1, 1927	1,704,000 00
Internal Improv't.	3½ "	July 1, 1928	4,850,000 00
Consolidated	3½ "	At pleasure after July 1, 1930.	5,000,000 00
Funding	3½ "	July 1, 1936	1,453,300 00
Public Improvm't.	3½ "	January 1, 1940	5,754,000 00
Four Million	3½ "	March 1, 1945	2,361,000 00
1860 Stock	6 "	Unredeemed,no int. allowed.	482 00
Water, 1875	6 "	" " "	270 00
Consolidated,1890.	6 "	" " "	2,727 50
Five Million	6 "	" " "	2,003 45
Exempt, 1893	6 "	" " "	500 00
Water, 1894	5 "	" " "	3,400 00
		Funded debt	$36,695,682 95

GUARANTEED DEBT.

W. Md. R. R. Six Per Cent. January 1, 1900, (Third Mortgage Bonds)	875,000 00
Total funded and guaranteed debt	$37,570,682 95

STATEMENT No. 10.

INDEBTEDNESS OF THE WESTERN MARYLAND RAILROAD COMPANY TO THE MAYOR AND CITY COUNCIL OF BALTIMORE, DECEMBER 31, 1898.

First Mortgage Bonds, held by Commissioners of Finance	$43,500 00	
Interest thereon from July 1, 1896	6,525 00	
		$50,025 00
Second Preferred Mortgage Bonds, held by Commissioners of Finance	$178,500 00	
Interest thereon from July 1, 1896	26,775 00	
		205,275 00
Accrued Interest on Second Mortgage Bonds, redeemed January 1, 1887		333,000 00
Third Mortgage Endorsement	$875,000 00	
Interest thereon to December 31, 1898	1,470,000 00	
		2,345,000 00
Fourth Mortgage to secure loan of city stock	$1,000,000 00	
Interest thereon to December 31, 1898	1,590,000 00	
		2,590,000 00
Fifth Mortgage to secure loan of city stock	$1,704,000 00	
Interest thereon from July 1, 1896	138,450 00	
		1,842,450 00
Loan of city stock under Ordinance No. 71 of 1882	$684,000 00	
Interest thereon from July 1, 1896	68,400 00	
		752,400 00
Funding certificates, being amount of matured coupons off First Mortgage and Second Preferred Mortgage Bonds funded under Ordinance 22, 1879	$226,530 00	
Interest thereon from January 1, 1896	40,775 40	
		267,305 40
Coupons from First Mortgage unendorsed bonds	$71,742 00	
Interest thereon to December 31, 1891	69,511 69	
		141,253 69
		$8,526,709 09
Less:		
Value of Western Maryland Railroad 1925 Loan Sinking Fund	$73,076 73	
Value of Western Maryland Railroad 1927 Loan Sinking Fund	145,820 62	
		218,897 35
		$8,307,811 74

INTEREST ON FUNDED AND GUARANTEED DEBT.

Funded Debt.

Name of Loan.	Rate of Interest.	When Payable.	Where Payable.
City Hall 1900	6 Per Cent.	January, April, July and October.	American National Bank.
City Hall 1902	6 "	" " " "	" " "
Funding 1900	6 "	" " " "	" " "
Patterson Park 1920	4 "	" " " "	" " "
Western Maryland Railroad 1927	3½ "	January and July	" " "
Consolidated 1930	3½ "	" "	" " "
Water 1916	5 "	May and November	National Mechanics' Bank.
" 1922	4 "	" "	" " "
" 1926	4 "	" "	" " "
Jones' Falls 1900	6 "	February, May, August and November	National Exchange Bank.
" " 1900	5 "	February, May, August and November	" " "
" " 1900	3 6/10 "	February, May, August and November	" " "
" " 1900	3½ "	February, May, August and November	" " "
" " 1900	3 "	February, May, August and November	" " "
Conduit 1922	3½ "	January and July	" " "
Four Million 1915	3½ "	March and September	" " "
McDonogh Extension 1916	5 "	" "	" " "
Internal Improvement 1928	3½ "	January and July	Farmers and Merchants' National Bank.
Harford Run 1901	4 "	" "	Farmers and Merchants' National Bank.

INTEREST ON FUNDED AND GUARANTED DEBT.—Continued.

FUNDED DEBT.

Name of Loan.	Rate of Interest.	When Payable.	Where Payable.
Harford Run 1920	4 Per Cent.	January and July	Farmers and Merchants' National Bank.
Paving 1920	4 "	May and November	Farmers and Merchants' National Bank.
Funding 1916	5 "	" "	Farmers and Merchants' National Bank.
Public Improvement 1940	3½ "	January and July	National Bank of Baltimore.
Western Maryland Railroad 1925	4 "	" "	" " "
" " " 1902	6 "	" "	" " "

GUARANTEED BONDS.

Western Maryland Railroad Third Mortgage Bonds	6	Per Cent.	January and July	National Bank of Baltimore.

ANNUAL REPORT

— OF THE —

CITY COMPTROLLER,

— TO THE —

Mayor and City Council of Baltimore,

— FOR THE —

FISCAL YEAR ENDING DECEMBER 31st, 1898.

COMPTROLLER'S DEPARTMENT.

Comptroller:
CHARLES D. FENHAGEN.

Deputy Comptroller:
JULIUS W. FREEMAN.

Chief Clerk:
HENRY C. HINES.

Assistant Clerk: H. L. P. WOOLF.

Auditors: ALBERT M. COLLINS. SAM'L R. PAYNE.

License Detective: WM. J. ROBINSON.

Stenographer: WM. M. JORDAN.

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REPORT.

COMPTROLLER'S DEPARTMENT—CITY HALL,
BALTIMORE, January 7, 1899.

To the Honorable the Mayor and City Council of Baltimore:

GENTLEMEN: I take pleasure in submitting herewith the report of this department for the fiscal year ending December 31, 1898.

I am highly gratified that the revenues of the city from taxation and other sources were sufficient to meet the year's expenditures and leave a balance of $111,270.76, from which, however, should be deducted about $31,000 deficiencies in several of the departments, which will have to be provided for in the coming year. This will leave a net surplus of about $80,000, which can be utilized in the work of the several departments for the ensuing fiscal year. Part of the work was provided for the past year, but not completed.

In making up our statement of the year's work we have, as formerly, treated the interest on the stock debt due January 1st as a charge upon the year 1899, for the reason that provision is only made in the year in which due. The same applies to *most* of the December salaries and a *part* of December bills. The same, however, has been done each year, with the result that the expenses of *twelve months* are met within the *year*.

The propriety of this system may be questioned, but unless in some year there should be provision made for thirteen months I hardly see how it can very well be changed. It would certainly be very desirable to have each year take care of its own identical expenses, which would be simply a matter of book-keeping; but to accomplish it extra provision would have to be made.

In my report to your Honorable Body a year ago I suggested the faultiness of the system which allowed the departments of the city government to expend to the extent of their appropriation, regardless of the fact that receipts for the purpose might be very deficient.

I am glad to note that the New Charter now limits these expenditures to actual receipts, except in the case of fixed charges which have to be met. A contingent fund of fifty thousand ($50,000) dollars is provided to meet any deficiency along this line, in order to prevent a floating debt at the end of the year, although I can conceive that an emergency *might* arise, or that the collection of taxes, etc., *might* be so deficient that even *this* contingent fund might not meet the situation in paying interest and other fixed items of expense, and thus create a floating debt which is absolutely *forbidden*. Yet, I think, for ordinary purposes this would be sufficient, and it's a wise provision of the Charter which requires it.

You will find herewith an account of cash receipts and expenditures for the year, together with accompanying statements and tables, showing mostly comparisons with previous year.

The *statements* are as follows:

No. 1. Cash receipts and expenditures.

No. 2. Estimates of amounts to be received, showing also actual receipts.

No. 3. Appropriations and expenditures.

No. 4. Apportionment of receipts and expenditures as based upon the levy.

No. 5. Balance sheet of current work.

No. 6. Statement of Five Million 1928 Loan (appropriation account).

No. 7. Statement of Six Million 1940 Loan (appropriation account).

No. 8. Statement of Four Million 1945 Loan (appropriation account).

No. 9. Statement of street openings (paid by assessment).

No. 10. Statement of street pavings (paid by assessment).

No. 11. Account with City Register.

No. 12. Statement of loans (cash accounts).

No. 13. Statement of Twenty-first and Twenty-second Wards, Annex, (receipts and expenditures).

The *tables* embrace the market halls, licenses, wharfage, dog pound, fines, courts, Police Department, elections and registration,

ground rents, judgments and suits, diary of City Council, Park Board, railway receipts and squares, all of which, we trust, you will find of some interest.

I beg respectfully to call attention to the propriety of taking some steps towards a revision of our city ordinances to conform to the provisions of the Charter. There is often great uncertainty as to the proper settlement of questions that arise from time to time, and this department, and I believe the others also, are frequently placed in an embarrassing position on this account.

In closing this report I desire to place upon record my acknowledgment of the very efficient services rendered by those associated with me in the administration of the affairs of this department, and to express my appreciation of the friendly relations which have so often been manifested by yourselves and the various departments during the year.

Very truly your obedient servant,

CHAS. D. FENHAGEN, *Comptroller.*

STATEMENTS.

STATEMENT No. 1.

RECEIPTS AND EXPENDITURES DURING THE FISCAL YEAR ENDING DECEMBER 31, 1898.

Cash balance charged to City Register January 1, 1898.		$865,502 81
Received from City Collector.		
Account tax levy, 1898, 20 wards	$4,272,201 56	
" taxes in arrears, 20 wards	1,225,017 79	
" interest, 20 wards	40,679 04	
" arrearages sinking funds, 20 wards	120,773 03	
" taxes, including arrears, Annex.	202,484 70	
" assessment of securities, 20 wards	164,219 65	
" " " " Annex.	16,341 72	
" " " mortgages	10,256 00	
" water tax, arrears	66 16	
" opening streets, individual benefits	52,529 88	
" opening streets, city benefits	104,741 86	
" paving streets, assessments	26,025 70	
		$6,235,337 09

(See Statements Nos. 2, 9 and 10 for Details).

Received from Various Sources.

Water Board (rents, etc.)	$837,856 02
Park Board (city railway receipts, etc.)	251,694 98
Interest on stock debt	574,848 75
State of Maryland, account of schools	261,763 60
Tuition fees	5,185 32
Liquor licenses	410,160 10
General licenses	66,947 14
Market licenses	58,207 30
State tax on city loans	7,387 56
Bay View Asylum	1,186 52
Fines, etc	5,458 09
Jail Board	6,791 81
Quarantine Hospital	17,900 89
Permits for sheds, etc.	7,756 07
Wharfage	34,367 51
Inspector of Gas Meters and Superintendent of Lamps	3,621 14
Temporary loans	1,269,000 00
Intestate estates	562 82
State of Maryland, Free Text Books Fund	53,691 56
Sale of stock, account Six Million Loan	492,537 50
" " " " Four " "	957,750 00
Telephone conduits	10,756 02
Street Cleaning Department, sale of old material and refuse	1,313 65
City Commissioner, old material, etc.	4,632 39
Ground rent from sundry parties	538 00
Transportation of poor	76 12

Rents, Burke, Hollins, Ensor and Pennsylvania avenue	655 49	
Auction duties	5,360 51	
Fire Department (old hose, etc.)	485 32	
Dog Pound, dogs reclaimed and sold	247 52	
Turnpike dividends	190 87	
City seals	21 95	
City Library	27 00	
Topographical survey (maps)	102 65	
Harbor Board	85 75	
Superintendent of Public Buildings	2 13	
Conscience fund	70	
Market halls (rental)	545 00	
Registration	140 12	
Health	76 21	
Grade advertising	408 00	
Tax sales	4,481 42	
Judgments and suits	186 45	
Removed losses	638 43	
Account of squares from Park Board	28,397 00	
Extension of water supply	110 21	
For special work done through City Commissioner's Department	810 95	
Sewerage Commission	2 20	
Board of Insane Patients (on account)	2,118 00	
Inspection private paving	405 50	
Interest on bank deposits	1,605 64	
Public franchises	353 75	
Street Cleaning Department	12 00	
Brice alley and Eager street sewers	54 15	
Commissioner for Opening Streets	3 28	
Interest on temporary loans (returned)	486 11	
General expenses	50 00	
Paving Grant street	325 00	
Court of Common Pleas	392 80	
Western Maryland Railroad	752 13	
City Library (amount refunded)	35 00	
Public schools " "	55 90	
Revenue stamps	99 00	
Opening Burke street (subject to court's order)	1,000 00	
Dog licenses and fines	34,831 00	
		$5,427,546 00
		$12,528,385 90

STATEMENT No. 1—Concluded.

Expenditures.

Department of Inspector of Buildings, City	$179,900 20
" " " " " Annex	11,021 98
Street Cleaning Department, City	343,807 06
" " " Annex	37,133 34
Superintendent of Lamps' Department, City	343,858 63
Superintendent of Lamps' Department, Annex	55,691 56
Harbor Commission	57,939 88
Health Department, City	77,452 03
" " Annex	3,799 80
Fire Department, City	413,649 20
" " Annex	83,945 49
City Commissioner's Department, City	234,902 44
" " " Annex	26,843 39
City Collector's Department	60,712 32
Commissioners for Opening Streets	9,163 54
Liquor License Commission	14,785 43
Supervisors of Election (including registration and election)	78,780 61
General expenditures	298,719 29
City Library	9,035 00
Superintendent of Public Buildings' Department	46,538 45
Public schools, City	1,151,541 53
" " Annex	171,690 29
Police Department	860,167 37
City poor	355,580 64
Certain expenses (courts, jail, etc.)	252,912 47
Interest on stock debt	1,526,465 75
Opening streets (city benefits appropriation)	104,741 86
Sinking Funds	467,295 96
Temporary Loans	2,088,000 00
Cleaning and repairs of markets	4,663 54
" " " " public halls	251 77
Expenditures of various squares	27,693 95
Tax sales, property redeemed and purchased	3,365 81
Water Board expenses	818,519 38
Park Board, expenses of parks	250,931 13
Opening streets (damages paid)	129,545 17
Paving streets (account of assessments)	31,581 31
Fines remitted	371 90
Harbor Master's fees, etc	8,580 64
Advertising permits for sheds, etc	337 70
Grade advertising	336 13
Free Text Books, Public Schools	52,937 78
Premium on sales of stock	40,187 50
Water Board, water tax in arrears	66 16
Paving certificates	9,039 46

City Commissioner, special work on streets	$ 809 64	
Removed cases	68 00	
State tax (error in account)	144 66	
Dog licenses and fines	4,103 12	
Public franchises, advertising	305 65	
Revenue stamps	99 00	
Ancient and Honorable Artillery	3,678 80	
Biennial reassessment	11,962 91	
Assistance for City Solicitor	41 66	
City Library; extra appropriation	160 65	
Inspection of private paving	175 50	
Intestate estates, account public schools	1,986 41	
City Commissioner, error, refunded	9 40	
Board from insane patients	57 16	
Paving Grant street (special)	325 00	
Paving Fulton avenue (to be refunded by assessment)	5,628 10	
Loans, wages	155 73	
		$10,774,196 23

Account of Six Million 1910 *Loan.*

Court House and Record Building	$325,125 90	
Furnishing Court House	871 10	
Baltimore City College	15,435 95	
Constructing sewers	73,874 53	
		415,310 48

Account of Four Million 1945 *Loan.*

Enlargement of water supply	$606,876 84	
Extension of Carroll Park	70,221 75	
New Court House	165,862 97	
		842,961 56

Account of Subway 1922 *Loan.*

Electrical Commission	2,791 68
Total payments	$12,035,259 95
Balance charged to City Register	493,125 95
	$12,528,385 90

STATEMENT NO. 2.

STATEMENT OF ESTIMATES AND RECEIPTS TO DECEMBER 31, 1898.

		Estimate.	Received.	Balance. Dr.	Balance. Cr.
Taxes for 1898:	*Per* $100				
Direct tax	$ .64½	$1,203,247 50	$1,224,697 78	.....	$21,450 28
Public schools	.45⅜	853,466 25	868,681 04	.....	15,214 79
Police Department	.33½	624,942 50	636,083 36	.....	11,140 86
Interest on stock debt	.37½	699,562 50	712,033 62	.....	12,471 12
Certain expenses	.10	186,550 00	189,875 63	.....	3,325 63
City poor	.14	261,170 00	265,825 87	.....	4,655 87
Opening streets	.01½	27,982 50	28,481 33	.....	498 83
General Sinking Fund	.08¼	153,903 75	156,647 36	.....	2,743 61
Water 1916 Loan Sinking Fund	.02	37,310 00	37,975 12	.....	665 12
" 1926 " " "	.01	18,655 00	18,987 54	.....	332 54
" 1922 " " "	.00½	9,327 50	9,493 77	.....	166 27
Internal Imp. 1928 Sinking Fund	.03	55,965 00	56,962 69	.....	997 69
Public Imp. 1940 " "	.02	37,310 00	37,975 12	.....	665 12
Four Million 1945 " "	.00¼	9,327 50	9,493 78	.....	166 28
Funding 1936 " "	.01	18,655 00	18,987 55	.....	332 55
	$2.25				
Basis $266,500,000		70 per cent.	71¼ per cent.		
Totals		$4,197,375 00	$4,272,201 56	.....	$74,826 56

Income from mortgages	$10,000 00	$ 10,256 00	....	$ 256 00
Assessment of securities	150,000 00	164,219 65	.....	30,561 37
" " " Annex		16,341 72	.....	....
Totals	$160,000 00	$190,817 37	.....	$30,817 37
Taxes in Annex:				
Direct (including arrears and interest)	$150,000 00	$202,484 70	....	$52,484 70
Taxes in Arrears:				
Direct tax	$546,671 80	$372,716 33	$173,955 47	.....
Public schools	285,994 02	248,404 02	37,590 00	.....
Police Department	233,464 50	197,477 82	35,986 68	.....
Interest on stock debt	252,919 88	210,372 36	42,547 52	.....
Certain expenses	58,366 12	52,910 43	5,455 69	.....
City poor	101,167 95	84,477 50	16,690 45	.....
Opening streets	77,821 50	58,659 33	19,162 17	.....
General Sinking Fund	64,202 74	55,262 91	8,939 83	.....
Water 1916 Loan Sinking Fund	15,564 30	13,254 78	2,309 52	....
" 1926 " " "	7,782 15	6,744 85	1,037 30	... .
" 1922 " " "	3,891 07	3,313 78	577 29	.....
Internal Imp. 1928 Sinking Fund	23,346 45	20,234 38	3,112 07	... .
Public Imp. 1940 " "	15,564 30	13,489 52	2,074 78	....
Four Million 1945 " "	3,891 07	3,355 99	535 08	.....
Funding 1936 " "	7,782 15	5,116 82	2,665 33	.....
Interest	41,174 25	40,679 04	495 21	.....
Totals	$1,739,604 25	$1,386,469 86	$353,134 39	....
Totals for taxes, current and arrears	$6,246,979 25	$6,051,973 49	$353,134 39	$158,128 63
Public Schools, Additional:				
State of Maryland	$215,000 00	$261,763 60	....	$46,763 60
Tuition fees	3,000 00	5,185 32	....	2,185 32
Totals	$218,000 00	$266,948 92	.....	$48,948 92

STATEMENT No. 2.—Concluded.

	Estimate.	Received.	Balance. Dr.	Balance. Cr.
City Poor, Additional:				
Bay View Asylum	$600 00	$1,186 52	.....	$586 52
Fines	5,000 00	5,086 19	.....	86 19
Totals	$5,600 00	$6,272 71	.....	$672 71
Certain Expenses, Additional:				
City Jail	$5,500 00	$6,791 81	.....	$1,291 81
Interest on Stock Debt, Additional:				
Water Board	$346,321 25	$345,096 25	$1,225 00	.....
Commissioners of Finance	112,500 00	112,500 00	.....	.....
Western Maryland Railroad Co	82,740 00	82,740 00	.....	.....
Park Board	33,287 50	34,512 50	.....	$1,225 00
Totals	$574,848 75	$574,848 75	$1,225 00	$1,225 00
Sundry Accounts:				
Liquor licenses	$420,000 00	$410,160 10	$9,839 90	.....
Sale of refuse	1,000 00	1,313 65	.....	$313 65
Quarantine Hospital	16,000 00	17,900 89	.....	1,900 89
Permits for sheds, signs, etc	7,200 00	7,418 37	.....	218 37
City Commissioner, sale old material, permits, etc	5,000 00	4,622 99	377 01	.....
General Superintendent of Lamps	3,700 00	3,621 14	78 86	.....
Markets	50,000 00	53,513 76	.....	3,513 76
Wharfage	25,000 00	25,786 87	.....	786 87
General licenses	65,000 00	66,947 14	.....	1,947 14

Auction duties	7,800 00	5,360 51	2,439 49	
Telephone conduits	7,000 00	10,756 02		3,756 02
Fire Department	600 00	485 32	114 68	
Dog pound	300 00	247 52	52 48	
Turnpike dividends	200 00	190 87	9 13	
W. M. R. R., State Tax City Loans	900 00	1,084 17		184 17
City Register, State Tax City Loans	6,200 00	6,158 73	41 27	
City Library	300 00	27 00	273 00	
Topographical Survey	600 00	102 65	497 35	
Hollins Street Market Hall	100 00	54 00	346 00	
Cross Street Market Hall	200 00	206 20		6 20
Totals	$617,100 00	$615,987 90	$14,069 17	$12,657 07
Grand Totals	$7,668,328 00	$7,522,823 58	$368,128 56 222,924 14	$222,924 14
Net deficiency in receipts			$145,504 42	

STATEMENT NO. 3.

STATEMENT OF APPROPRIATIONS AND EXPENDITURES TO DECEMBER 31, 1898.

	Appropriations 1898.	Expenditures 1898.	Balance. Dr.	Balance. Cr.
Inspector of Buildings Department.				
Repairs of school houses	$30,000 00	$29,999 50		$ 50
" " city property	15,600 00	15,585 05		14 95
Sanitary and other improvements	20,000 00	20,000 00		
Emptying cess-pools	800 00	800 00		
Incidentals	400 00	400 00		
Livery and transportation	500 00	500 00		
Salaries	15,100 00	15,100 00		
Building Western High School	5,257 45	5,257 45		
" Primary School No. 4	2,118 45	1,290 41		828 04
" Colored School No. 9	2,158 14	556 00		1,602 14
" Grammar School No. 7	38,000 00	37,774 56		225 44
" Baltimore City College	100,000 00	46,969 59		53,030 41
" new Truck House	25,000 00	680 39		24,319 61
Room for additional judge	200 00	200 00		
Elevator in City Hall	10,000 00	4,548 70		5,451 30
Repairs city property (deficiency)	241 05	238 55		2 50
Totals	$265,375 09	$179,900 20		$85,474 89

Annex.				
Repairs of city property	$3,500 00	$3,500 00		
Salaries	1,200 00	1,200 00		
Livery and transportation	250 00	250 00		
Building School House No. 18	6,000 00	3,892 81		$2,107 19
" Engine " " 20	682 54	679 00		3 54
" " " " 21	1,059 89	389 65		670 24
" School " " 3	3,143 40	1,110 52		2,032 88
Totals	$15,835 83	$11,021 98		$4,813 85
Street Cleaning Department.				
Garbage carts and men	$141,336 00	$140,439 00		$897 00
Street " " "	74,880 00	73,566 00		1,314 00
Sweepers and scrapers	88,400 00	88,397 11		2 89
Salaries	10,000 00	9,828 49		171 51
Contingent fund	500 00	436 89		63 11
Sweeping machines, sprinklers, etc	21,620 09	21,618 85		1 24
Dumps	2,500 00	2,370 81		129 19
Removal of garbage	4,900 00	4,900 00		
Tools, repairs, etc	2,500 00	2,237 91		262 09
Totals	$346,636 09	$343,795 06		$2,841 03
Annex.				
Garbage carts and men	$18,720 00	$18,684 00		$36 00
Street " " "	8,520 00	8,520 00		
Sweepers and scrapers	9,619 91	8,868 23		751 68
Salary of Superintendent	1,000 00	1,000 00		
Tools	150 00	61 11		88 89
Totals	$38,009 91	$37,133 34		$876 57

STATEMENT No. 3.—Continued.

	Appropriations 1898.	Expenditures 1898.	Balance. Dr.	Balance. Cr.
General Superintendent of Lamps.				
Gas	$132,000 00	$120,833 60		$11,166 40
Electric lights	168,000 00	167,300 05		699 95
Gasoline	5,500 00	4,546 98		953 02
Salaries	3,000 00	3,000 00		
Lamplighters' salaries	48,178 00	48,178 00		
Totals	$356,678 00	$343,858 63		$12,819 37
Annex.				
Gas	$24,000 00	$22,954 42		$1,045 58
Electric lights	7,000 00	6,555 50		444 50
Gasoline	9,500 00	8,450 22		1,049 78
Lamplighters' salaries	18,304 00	17,731 42		572 58
Totals	$58,804 00	$55,691 56		$3,112 44
Harbor Board.				
Salary of Engineer and Clerk	$5,000 00	$4,588 87		$411 13
Dredging harbor	39,850 00	26,192 21		13,657 79
Ice-boats—Maintenance and repairs	20,000 00	19,078 80		921 20
Bulkhead at City Dock	4,783 89	3 393 73		1,390 16
Repairs of wharves	1,500 00	1,383 26		116 74
Removal of ashes from tow-boats	950 00	813 67		136 33
Removal of floating matter	2,500 00	2,489 34		10 66
Totals	$74,583 89	$59,939 88		$16,644 01

Health Department.				
Salaries	$45,660 00	$45,452 03		$207 97
General health	12,000 00	12,000 00		
Quarantine Station	20,000 00	20,000 00		
Totals	$77,660 00	$77,452 03		$207 97
Annex.				
Salaries	$3,800 00	$3,799 80		$ 20
Fire Department.				
Salaries	$286,300 00	$286,281 81		$ 18 19
Expenses	120,000 00	119,754 26		245 74
Equipping Hook and Ladder Company No. 11	13,500 00	7,468 51		6,031 49
Fire Alarm Box, Federal and Durham streets	175 00	144 62		30 38
Totals	$419,975 00	$413,649 20		$6,325 80
Annex.				
Salaries	$53,900 00	$53,888 03		$ 11 97
Expenses	16,000 00	15,931 14		68 86
Equipping Engine Company No. 21	14,400 00	14,126 32		273 68
Totals	$84,300 00	$83,945 49		$354 51
City Commissioner's Department.				
Repairs of sewers	$ 6,000 00	$ 5,994 50		$ 5 50
" " bridges (including painting)	15,000 00	14,901 29		98 71
" " paved streets	100,000 00	93,641 95		6,358 05
" " unpaved streets	3,000 00	1,457 84		1,542 16

STATEMENT No. 3.—Continued.

	Appropriations 1898.	Expenditures 1898.	Balance. Dr.	Balance. Cr.
City Commissioner's Department.—Continued.				
Paving in front of city property	$ 825 00	$ 825 00		
" and repaving cross streets	18,141 89	18,130 17		$ 11 72
Flag and stepping stones	1,500 00	1,499 56		44
Livery and transportation	1,500 00	1,500 00		
Incidentals	500 00	197 43		2 57
Light street bridge maintenance	5,500 00	5,412 02		87 98
Salaries	30,109 11	30,000 00		109 11
Rental of storage lots	60 36	60 36		
Advertising	200 00	147 20		52 80
Repairs Jones Falls' walls	908 12	908 12		
Boardwalk—Streeper street	272 70	272 70		
Mt. Royal avenue, paving	11,918 62	39,124 67		2,793 95
Fulton " "	25,000 00	25,000 00		
Grant street, "	325 00	325 00		
Gay " "	6,000 00	33 89		5,966 11
Paving in front No. 31 Primary School	175 00	175 00		
Paving Collington Square sidewalk	1,808 68	1,808 68		
Totals	$258,717 18	$241,715 38		$17,032 10
Annex.				
Repairs of roads, streets, bridges, etc.	$26,729 11	$25,703 96		$1,025 15
Grade establishments	1,100 00	468 54		631 46
Flagstones	500 00	500 00		
Woodbrook avenue paving and flagging	170 89	170 89		
Totals	$28,500 00	$26,843 39		$1,656 61

City Collector's Department.				
Salaries	$34,100 00	$30,639 24		$3,460 76
Expenses	3,000 00	2,999 71		29
Salaries of Appeal Tax Court	30,200 00	25,973 72		4,226 28
Expenses of " " "	1,100 00	1,099 65		35
Totals	$68,400 00	$60,712 32		$7,687 68
Commissioners for Opening Streets.				
Salaries	$9,000 00	$9,000 00		
Expenses	200 00	160 26		$39 74
Totals	$9,200 00	$9,160 26		$39 74
Liquor License Commission.				
Salaries	$10,800 00	$10,800 00		
Expenses	4,200 00	3,985 43		$214 57
Totals	$15,000 00	$14,785 43		$214 57
Supervisors of Elections.				
Registration	$51,000 00	$50,868 85		$ 131 15
Elections	18,000 00	16,203 73		1,796 27
Salaries	10,300 00	10,290 21		9 79
Expenses	1,500 00	1,417 82		82 18
Totals	$80,800 00	$78,780 61		$2,019 39
Mayor and City Council	$119,116 56	$119,116 56		

STATEMENT No. 3.—Continued.

	Appropriations 1898.	Expenditures 1898.	Balance. Dr.	Balance. Cr.
General Expenditures.				
Preservation Records (Circuit Court)	$3,000 00	$2,482 65		$517 35
Renumbering market stalls	1,500 00	1,214 87		285 13
Drinking fountain, Lafayette avenue and Payson street	75 00			75 00
Diary of City Council { Expenses	11,300 00	11,300 00		
Diary of City Council { Salaries	48,700 00	48,699 34		66
General expense	2,000 00	1,995 86		4 14
Mayoralty	3,000 00	2,990 67		9 33
Salaries, not otherwise provided for	53,000 00	52,473 39		526 61
Public printing	7,000 00	6,996 43		3 57
Interest on temporary loans	20,000 00	11,812 22		8,187 78
" " paving certificates, (maturing)	1,128 68	1,087 75		40 93
State tax on city loans	48,000 00	48,587 12	$587 12	
Ground rents on city property	49,000 00	48,393 83		606 17
Insurance on city property	1,000 00	300 00		700 00
Topographical Survey	10,000 00	3,632 72		6,367 28
Sewerage Commission	25,000 00	6,101 29		18,898 71
Maryland Institute	9,000 00	9,000 00		
Ringing Mechanics' Bells	200 00	200 00		
Winding Maryland Institute clock	75 00	75 00		
Transportation to House of Correction	250 00	320 70	70 70	
Dog pound	1,300 00	997 00		303 00
General licenses	1,000 00	652 65		347 35
Assistance to Examiner of Titles	1,200 00	525 85		674 15
Hose for various markets	500 00	496 90		3 10
Music in the parks	1,746 00	1,746 00		
New Charter Commission	4,873 40	4,872 14		1 26

Enoch Pratt Free Library Fund	497 50	497 50		
Pension account, W. H. War	260 00	260 00		
Veteran Volunteer Firemen's Association	750 00	750 00		
Refunded taxes	5,000 00	5,017 19	17 19	
Water for fire-plugs at Carroll	250 00	250 00		
	$111,000 00			
Ordinances and resolutions	107,159 84			
	3,840 16	1,635 00		2,205 16
Biennial reassessment	20,000 00	20,000 00		
Thomas B. Bell	300 00	300 00		
John Kern, treasurer	328 98	328 98		
Portrait ex-Mayor Hooper	400 00	400 00		
Henry N. Bankard	500 00	500 00		
William H. Schilling	200 00			200 00
Totals	$336,174 72	$296,893 05	$675 01	$39,956 68
City Library.				
Salaries	$2,400 00	$2,400 00		
Expenses	6,600 00	6,600 00		
Totals	$9,000 00	$9,000 00		
Superintendent of Public Buildings.				
Salaries, City Hall	$17,325 00	$17,324 84		16
" " " Annex	2,530 00	2,529 96		04
Expenses " "	10,500 00	10,496 44		3 56
" " " Annex	2,875 00	2,871 33		3 67
Salaries, City Court Houses	4,405 00	4,402 50		2 50
Expenses " " "	6,920 00	6,916 73		3 27
" " " " (Deficiency)	871 85	871 85		
" City Hall (Deficiency)	970 31	939 67		30 64
" " " Annex, (Deficiency)	185 13	185 13		
Totals	$46,582 29	$46,538 45		$43 84

STATEMENT No. 3.—Continued.

	Appropriations 1898.	Expenditures 1898.	Balance. Dr.	Balance. Cr.
Public Schools.				
Salaries	$970,000 00	$939,815 95		$30,184 05
Expenses	150,000 00	149,925 63		74 37
Night Schools	10,000 00	9,407 13		592 87
Polytechnic Institute, white	33,500 00	32,296 57		1,203 43
" " colored	9,500 00	9,353 85		146 15
Free text-books	8,000 00	8,000 00		
School Board litigation	2,716 50	2,716 50		
Totals	$1,183,716 50	$1,151,515 63		$32,200 87
Annex.				
Salaries	$146,000 00	$143,292 70		$2,707 30
Expenses	29,700 00	28,367 59		1,332 41
Totals	$175,700 00	$171,660 29		$4,039 71
Police Department.				
Salaries	$800,292 00	$804,025 70	$3,733 70	
Expenses	35,000 00	40,651 82	5,651 82	
New Police Station, Annex	25,000 00	15,489 85		$9,510 15
Totals	$860,292 00	$860,167 37	$9,385 52	$9,510 15

City Poor.

Maintenance of Bay View Asylum and Hospital, expenses	$83,229 98	$83,219 40		$10 58
Maintenance of Bay View Asylum and Hospital, salaries	21,770 02	21,770 02		
Transportation of poor	750 00	739 23		10 77
Friendly Inn	1,000 00	1,000 00		
St. Mary's Industrial School	20,000 00	20,000 00		
Mt. Hope Retreat	40,000 00	38,174 04		1,825 96
Maryland Hospital for the Insane	40,000 00	36,630 07		3,369 93
Second Hospital for the Insane at Springfield	17,000 00	13,223 59		3,776 41
Montevue Hospital for the Insane	150 00	150 00		
House of Refuge	20,000 00	20,000 00		
" " " for Manual Training School	3,000 00	3,000 00		
House of Reformation	12,000 00	12,000 00		
College of Physicians and Surgeons' Hospital	16,900 00	16,493 29		406 71
University of Maryland Hospital	8,000 00	7,999 65		35
St. Vincent's Infant Asylum	6,000 00	6,000 00		
St. Elizabeth's Colored Orphan Asylum	3,500 00	3,500 00		
Nursery and Child's Hospital	3,700 00	3,700 00		
Home of the Friendless	2,100 00	2,100 00		
Industrial Home for Colored Girls	3,000 00	3,000 00		
Female House of Refuge	5,000 00	5,000 00		
Maryland Homeopathic Hospital	3,380 00	3,294 57		85 43
Hospital of the Good Samaritan	3,380 00	2,815 43		564 57
Deaf and Dumb at Frederick	500 00	476 33		23 67
Shelter for the Aged Colored Poor	1,000 00			1,000 00
Boys' Home Society	3,000 00	3,000 00		
St. Mary's Home for Colored Boys	500 00	500 00		
St. Mary's Female Orphan Asylum	9,000 00	9,000 00		
St. Joseph's House of Industry	1,600 00	1,584 00		16 00
Baltimore University Hospital	5,000 00	1,666 32		3,333 68
Maryland General Hospital	8,000 00	7,879 87		120 13
The Simmin's Home	1,000 00			1,000 00

STATEMENT No. 3.—Continued.

	Appropriations 1898.	Expenditures 1898.	Balance. Dr.	Balance. Cr.
City Poor.—Continued.				
St. Joseph's Hospital	5,070 00	4,329 45		740 55
St. Agnes' Hospital	4,500 00	4,496 12		3 88
Baltimore Manual Labor School	1,500 00	1,500 00		
St. Vincent de Paul Orphan Asylum	1,600 00	1,600 00		
House of the Good Shepherd for Colored Girls	2,500 00	2,500 00		
Provident Hospital	2,250 00	1,652 86		597 14
General German Orphan Asylum	1,000 00	1,000 00		
Hebrew Hospital and Asylum Association	1,500 00	1,311 40		188 60
Free baths	500 00	500 00		
St. Martha's Episcopal Home	500 00	500 00		
Southern Homeopathic Free Dispensary	500 00	500 00		
Home for Crippled and Deformed Children	3,000 00	3,000 00		
Northeastern Free Dispensary	1,000 00	1,000 00		
Eastern " "	1,000 00	1,000 00		
Baltimore General Free Dispensary	1,000 00	1,000 00		
Southern Free Dispensary	600 00	600 00		
Baltimore Eye, Ear and Throat Charity Hospital Free Dispensary	300 00	300 00		
Evening Dispensary for Working Women and Girls	700 00	575 00		125 00
Baltimore Homeopathic Free Dispensary	300 00	300 00		
Totals	$372,780 00	$355,580 64		$17,199 36

Certain Expenses.

Criminal Court	$70,000 00	$75,713 48	$5,713 48	
Baltimore City Court	15,000 00	14,406 74		$593 26
Court of Common Pleas	18,000 00	13,993 32		4,006 68
Superior Court	18,000 00	14,827 65		3,172 35
" " No. 2	2,000 00	420 00		1,580 00
Circuit Court	4,200 00	4,301 00	101 00	
" " No. 2	4,200 00	4,069 45		130 55
Orphans' Court	7,000 00	8,722 00	1,722 00	
Judges-at-large	6,000 00	6,000 00		
Judgments and suits	5,000 00	6,653 75	1,653 75	
Coroners	7,100 00	7,041 65		58 35
City Jail (expenses)	27,500 00	27,500 00		
" " (salaries)	28,500 00	28,500 00		
Magistrates' salaries	17,500 00	17,332 91		167 09
Supreme Bench	4,500 00	4,659 66	159 66	
Criminal Court No. 2	10,000 00	14,273 57	4,273 57	
Baltimore City Court No. 2	2,000 00	3,129 04	1,129 04	
Court of Common Pleas No. 2	1,500 00	789 00		711 00
Totals	$218,000 00	$252,333 22	$14,752 50	$10,419 28
Interest on stock debt	$1,527,270 75	$1,526,465 75		$805 00

Opening Streets.

Castle street	$2,716 23	$2,716 23		
Pulaski "	3,530 92	3,530 92		
Bradford street	5,505 96	5,505 96		
Port "	5,936 68	5,936 68		
Payson "	5,977 13	5,977 13		
Great Constitution street	1,803 70	1,803 70		
Collington avenue	9,906 44	9,906 44		
Burke street	24,478 50	24,478 50		

STATEMENT No. 3.—Concluded.

	Appropriations 1898.	Expenditures 1898.	Balance. Dr.	Balance. Cr.
Opening Streets.—Continued.				
Patuxent street	$27,566 56	$27,566 56		
Glover "	8,679 65	8,679 65		
Chew "	6,494 26	6,494 26		
Stevenson "	1,577 64	1,577 64		
Chesapeake street	568 19	568 19		
Totals	$104,741 86	$104,741 86		
Sinking Funds.				
General	$218,106 49	$211,910 27		$6,196 22
Internal Improvement 1928 Loan	79,311 45	77,197 07		2,114 38
Funding 1936 Loan	26,437 15	24,104 37		2,332 78
Public Improvement 1940 Loan	52,874 30	51,464 64		1,409 66
Four Million 1945 Loan	13,218 57	12,849 77		368 80
Water 1916 Loan	52,874 30	51,229 90		1,644 40
" 1922 "	13,218 57	12,807 55		411 02
" 1926 "	26,437 15	25,732 39		704 76
Totals	$482,477 98	$467,295 96		$15,182 02
Grand totals	$7,668,157 95	$7,401,493 34	$24,813 03	$291,477 64
				24,813 03
Net balance carried into the general treasury				$266,664 61

State tax, court expenses and Police Department are liens upon the city and must be paid.

	Appropriations 1898.	Expenditures 1898.
Ordinances and Resolutions.		
Equipping Hook and Ladder Company No. 11	$13,500 00	
Preservation records Circuit Court No. 1	3,000 00	
Repairs city property, deficiency	241 05	
Superintendent Public Buildings, City Hall, expenses, deficiency	970 31	
" " " " " Annex, expenses, deficiency	185 13	
" " " " " Court House, expenses, deficiency	871 85	
Mt. Royal avenue, paving	18,000 00	
Fulton " "	25,000 00	
Grant street "	325 00	
Drinking fountain Lafayette avenue and Payson street	75 00	
Fire-alarm box Durham and Federal streets	175 00	
Renumbering market stalls	1,500 00	
New elevator in City Hall	10,000 00	
Mail chute " "	600 00	
School Board litigation	2,716 50	
Accounted for in previous statement	$107,159 84	
Thomas W. Morse, ex-Register of Wills	$750 00	$750 00
S. C. Malone, engrossing resolutions, etc., complimentary to John T. Morris, ex-President School Board	200 00	200 00
Dixon Gough, damages to premises	60 00	60 00
Ames Sword Company, sword for Captain Dyer	500 00	500 00
L. Schmidt, engrossing resolutions of thanks to Captain Dyer	125 00	125 00
	$1,635 00	$1,635 00
Actual appropriation	$108,794 84	
Total apppropriation	111,000 00	
Balance	$2,205 16	

RECEIPT OF MONEYS NOT ESTIMATED FOR AND USED FOR ACCOUNT SPECIAL APPROPRIATIONS.

Source.	Amount Received.	Appropriated to	Amount Appropriated.	Authority.	Amount Expended
Dog licenses and fines through S. P. C. A	$4,000 00				
Interest on deposits	1,605 64				
Hollins street rents	67 88				
City seal	21 95				
Transportation of poor	76 12				
Harbor Board	85 75				
Sewerage Commission	2 20				
Superintendent Public Buildings	2 13				
Conscienc Fund	70				
Health Department	76 21				
Board for insane patients	2,060 84				
Registration lists and maps	140 12				
Draining pond Bruce alley	1 31				
Grade advertising	71 87				
Public franchises	48 10				
Broadway Hall	33 03				
Sale of material	8 63				
		Entertainment Ancient and Honorable Artillery of Boston	$3,678 80	Ordinance 95-98..	$3,678 80
		City Library	900 00	" 118-98..	160 65
		Assistant to City Solicitor	41 66	" 120-98..	41 66
		Biennial reassessment	12,000 00	Resolution 96-98..	11,962 91
Totals	$8,302 48	Appropriations	$16,620 46		$15,844 02
				Receipt	8,302 48
					*$7,541 54

*Excess expenditures account biennial reassessment.

STATEMENT No. 4.

COMPARATIVE STATEMENT BASED UPON LEVY DECEMBER 31, 1898.

	Estimate.	Receipts.	Appropriations.	Expenditures.
Direct:				
Cr.				
Direct tax.....64½c.	$1,203,247 50	$1,224,697 78	.....	.....
" " arrearages.....	546,671 80	372,716 33	.....	.....
" " Annex.....	150,000 00	202,484 70	.....	.....
Income from mortgages.....	10,000 00	10,256 00	.....	.....
Assessment of securities.....	150,000 00	180,561 37	.....	.....
Interest taxes in arrears.....	41,174 25	40,679 04	.....	.....
Sundry accounts.....	617,400 00	615,987 90	.....	.....
Dr.				
Mayor and City Council.....	.....	.....	$119,116 56	$119,116 56
Inspector of Buildings.....	.....	.....	265,375 09	179,900 20
" " Annex.....	.....	.....	15,835 83	11,021 98
Street Cleaning Department.....	.....	.....	346,636 09	343,795 06
" " " Annex.....	.....	.....	38,009 91	37,133 34
General Superintendent of Lamps.....	.....	.....	356,678 00	343,858 63
" " " Annex.....	.....	.....	58,804 00	55,691 56
Harbor Commission.....	.....	.....	74,583 89	57,939 88
Health Department.....	.....	.....	77,660 00	77,452 03
" " Annex.....	.....	.....	3,800 00	3,799 80
Fire "	.....	.....	419,975 00	413,649 20
" " Annex.....	.....	.....	84,300 00	83,945 49
City Commissioner's Department.....	.....	.....	258,747 48	241,715 38
" " " Annex.....	.....	.....	28,500 00	26,843 39
" Collector's Department.....	.....	.....	68,400 00	60,712 32
Commissioners for Opening Streets.....	.....	.....	9,200 00	9,160 26
Liquor License Commission.....	.....	.....	15,000 00	14,785 43
Supervisors of Election.....	.....	.....	80,800 00	78,780 61
General expenditures.....	.....	.....	336,174 72	296,893 05
City Library.....	.....	.....	9,000 00	9,000 00
Superintendent Public Buildings.....	.....	.....	46,582 29	46,538 45
Totals.....	$2,718,493 55	$2,647,383 12	$2,713,178 86	$2,511,732 62

STATEMENT No. 4.—Continued.

	Estimate.	Receipts.	Appropriations.	Expenditures.
Public Schools:				
Cr.				
School tax .....45⅝c.	$853,466 25	$868,681 04	.....	.....
" " arrearages.....	285,994 02	248,404 02	.....	.....
State of Maryland.....	215,000 00	261,763 60	.....	.....
Tuition fees	3,000 00	5,185 32	.....	.....
Dr.				
City	.....	.....	$1,183,716 50	$1,151,515 63
Annex	.....	.....	175,700 00	171,660 29
Totals	$1,357,460 27	$1,384,033 98	$1,359,416 50	$1,323,175 92
Police Department:				
Cr.				
Police tax .....33½c.	$624,942 50	$636,083 36	.....	.....
" " arrearages	233,464 50	197,477 82	.....	.....
Dr.				
City	.....	.....	$860,292 00	$860,167 37
Totals	$858,407 00	$833,561 18	$860,292 00	$860,167 37
City Poor:				
Cr.				
Poor tax.....14c.	$261,170 00	$265,825 87	.....	.....
" " arrearages.....	101,167 95	84,477 50	.....	.....
Bayview Asylum.....	600 00	1,186 52	.....	.....
Fines	5,000 00	5,086 19	.....	.....
Dr.				
Hospitals, Dispensaries, etc.....	.....	.....	$372,780 00	$355,580 64
Totals	$367,937 95	$356,576 08	$372,780 00	$355,580 64

Certain Expenses:				
Cr.				
Court tax.....10c.	$186,550 00	$189,875 63	.....	.....
" " arrearages.....	58,366 12	52,910 43	.....	.....
Jail.....	5,500 00	6,791 81	.....	.....
Dr.				
Sundry courts and jail.....	.....	.....	$248,000 00	$252,333 22
Totals.....	$250,416 12	$249,577 87	$248,000 00	$252,333 22
Interest on Stock Debt:				
Cr.				
Interest tax.....37½c.	$699,562 50	$712,033 62	.....	.....
" " arrearages.....	252,919 88	210,372 36	.....	.....
Commissioners of Finance.....	112,500 00	112,500 00	.....	.....
Water Board.....	346,321 25	345,096 25	.....	.....
Park "	33,287 50	34,512 50	.....	.....
Western Maryland R. R.....	82,740 00	82,740 00	.....	.....
Dr.				
Interest sundry loans.....	.....	.....	$1,527,270 75	$1,526,465 75
Totals.....	$1,527,331 13	$1,497,254 73	$1,527,270 75	$1,526,465 75
Opening Streets:				
Cr.				
Street tax.....1½c.	$27,982 50	$28,481 33	.....	.....
" " arrearages.....	77,821 50	58,659 33	.....	.....
Dr.				
Opening sundry streets.....	.....	.....	$104,741 86	$104,741 86
Totals.....	$105,804 00	$87,140 66	$104,741 86	$104,741 86

STATEMENT No. 4.—Concluded.

	Estimate.	Receipts.	Appropriations.	Expenditures.
General Sinking Fund:				
Cr.				
Tax .....8¼c.	$153,903 75	$156,647 36	.....	.....
" arrearages.....	64,202 74	55,262 91	.....	.....
Dr.				
Sinking Fund.....	.....	.....	$218,106 49	$211,910 27
Totals	$218,106 49	$211,910 27	$218,106 49	$211,910 27
Int. Imp. 1928 *Loan Sinking Fund:*				
Cr.				
Tax .....3c.	$55,965 00	$56,962 69	.....	.....
" arrearages	23,346 45	20,234 38	.....	.....
Dr.				
Sinking Fund.....	.....	.....	$79,311 45	$77,197 07
Totals	$79,311 45	$77,197 07	$79,311 45	$77,197 07
Funding 1936 *Loan Sinking Fund:*				
Tax .....1c.	$18,655 00	$18,987 55	.....	.....
" arrearages	7,782 15	5,116 82	.....	.....
Dr.				
Sinking Fund.....	.....	.....	$26,437 15	$24,104 37
Totals	$26,437 15	$24,104 37	$26,437 15	$24,104 37
Public Imp. 1940 *Loan Sinking Fund:*				
Cr.				
Tax .....2c.	$37,310 00	$37,975 12	.....	.....
" arrearages	15,564 30	13,489 52	.....	.....
Dr.				
Sinking Fund	.....	.....	$52,874 30	$51,464 64
Totals	$52,874 30	$51,464 64	$52,874 30	$51,464 64

Four Million 1945 *Loan Sinking Fund:*				
Cr.				
Tax ..... ½c.	$9,327 50	$9,493 78	.....	.....
" arrearages	3,891 07	3,355 99	.....	.....
Dr.				
Sinking Fund	.....	.....	$13,218 57	$12,849 77
Totals	$13,218 57	$12,849 77	$13,218 57	$12,849 77
Water 1918 *Loan Sinking Fund:*				
Cr.				
Tax ..... 2c.	$37,310 00	$37,975 12	.....	.....
" arrearages	15,564 30	13,254 78	.....	.....
Dr.				
Sinking Fund	.....	.....	$52,874 30	$51,229 90
Totals	$52,874 30	$51,229 90	$52,874 30	$51,229 90
Water 1922 *Loan Sinking Fund:*				
Cr.				
Tax ..... ½c.	$9,327 50	$9,493 77	.....	.....
" arrearages	3,891 07	3,313 78	.....	.....
Dr.				
Sinking Fund	.....	.....	$13,218 57	$12,807 55
Totals	$13,218 57	$12,807 55	$13,218 57	$12,807 55
Water 1926 *Loan Sinking Fund:*				
Cr.				
Tax ..... 1c.	$18,655 00	$18,987 54	.....	.....
" arrearages	7,782 15	6,744 85	.....	.....
Dr.				
Sinking Fund	.....	.....	$26,437 15	$25,732 39
Totals	$26,437 15	$25,732 39	$26,437 15	$25,732 39
Grand totals	$7,668,328 00	$7,522,823 58	$7,668,157 95	$7,401,493 34

SUMMARY OF COMPARATIVE STATEMENT BASED UPON LEVY, DECEMBER 31, 1898.

	Receipts.	Expenditures.	Balance. Dr.	Balance. Cr.
Direct tax, etc	$2,647,383 12	$2,511,732 62	.....	$135,650 50
Public schools, etc	1,384,033 98	1,323,175 92	.....	60,858 06
Police Department	833,561 18	860,167 37	$26,606 19	.....
Interest on stock debt, etc	1,497,254 73	1,526,465 75	29,211 02	.....
Certain expenses, etc	249,577 87	252,333 22	2,755 35	.....
City poor, etc	356,576 08	355,580 64	.....	995 44
Opening streets	87,140 66	104,741 86	17,601 20	.....
General Sinking Fund	211,910 27	211,910 27	.....	.....
Water 1916 Loan Sinking Fund	51,229 90	51,229 90	.....	.....
" 1922 " " "	12,807 55	12,807 55	.....	.....
" 1926 " " "	25,732 39	25,732 39	.....	.....
Internal Imp. 1928 Sinking Fund	77,197 07	77,197 07	.....	.....
Public " 1940 " "	51,464 64	51,464 64	.....	.....
Four Million 1945 " "	12,849 77	12,849 77	.....	.....
Funding 1936 " "	24,104 37	24,104 37	.....	.....
	$7,522,823 58	$7,401,493 34	$76,173 76	$197,504 00
	7,401,493 34			76,173 76
Net surplus	$121,330 24			$121,330 24

STATEMENT No. 5.

BALANCE SHEET, DECEMBER 31, 1898.

DR.		
City Register, cash on hand	$493,125 95	
Electrical Commission, due from loan	2,791 68	
Paving Fulton avenue, to be collected	5,628 10	
Tax sales, property sold, unredeemed	1,271 26	
CR.		
Water Board, balance		$63,357 72
Park Board, balance		5,710 81
Paving certificates, outstanding		37,783 90
Improvement Harford Run, balance		3,096 89
Free Text Books (white) balance		4,773 02
" " " (colored) "		1,026 93
Opening streets, balance forward		49,099 35
Paving " " "		2,738 35
Intestates' estates, account public schools		562 82
Rents, account street openings		127 61
Inspection private paving		230 00
Dog licenses and fines		26,727 88
Cash balance, Four Million Loan		66,059 63
" " Five " "		28,653 04
" " Six " "		98,298 28
*Mayor and City Council, surplus		111,270 76
	$502,816 99	$502,816 99

Mayor and City Council.

To estimated receipts for 1898	$7,668,328 00	
Less actual receipts	7,522,823 58	
		145,504 42
" balances from paved streets, account closed		1,277 16
" dangerous walls, account uncollectible		106 00
" monies not otherwise appropriated, excess payments		7,541 54
" surplus for year 1898		111,270 76
		$268,699 88
By appropriations for 1898	$7,668,157 95	
Less actual payment	7,401,493 34	
		266,664 61
" excess of estimated receipts over appropriation		170 05
" removed cases, balance closed		570 43
" balances from opening streets, accounts closed		1,294 79
		$268,699 88

No. 6.—STATEMENT OF FIVE MILLION

Accounts.	Authorized Appropriation.	Actual Appropriation.
Opening of Douglas street	$400,000 00	$373,473 46
Widening Fayette street	550,000 00	555,124 59
Widening East Baltimore street	250,000 00	168,220 33
Constructing sewers*	1,750,000 00	1,741,464 58
Completed to December 31, 1897		1,723,764 58
McHenry street		17,700 00
School-houses and lots	400,000 00	400,000 00
Repaving streets*	1,000,000 00	997,582 38
Completed to December 31, 1897		997,582 38
Improving Patterson Park	200,000 00	200,000 00
Purchasing Park, southwest Baltimore, Carroll	50,000 00	50,000 00
Building bridges	250,000 00	259,177 96
Completed December 31, 1897		259,177 96
Building addition to Court House	150,000 00	
	5,000,000 00	
Not Available.		
Court House appropriation.. $150,000 00		
Returned to Finance Coms.. 94,003 66		
	244,003 66	
Totals	4,755,996 34	4,715,043 30
Received from Commissioners of Finance.	4,755,996 34	
Total expenditures to date	4,727,343 30	
Balance on hand	$28,653 04	

1928 INTERNAL IMPROVEMENT LOAN.

Expended to Dec. 31, 1897.	Expended in 1898.	Total Expenditures to date.	Balance. Dr.	Balance. Cr.
$373,473 46	.....	$373,473 46	.....	.....
555,124 59	.....	555,124 59	.....	.....
168,220 33	.....	168,220 33	.....	.....
1,723,764 58	.....	1,723,764 58	.....	$17,700 00
1,723,764 58	.....	1,723,764 58	.....	.....
.....	.....	.....	.....	17,700 00
400,000 00	.....	400,000 00	.....	.....
997,582 38	.....	997,582 38	.....	.....
997,582 38	.....	997,582 38	.....	.....
200,000 00	.....	200,000 00	.....	.....
50,000 00	.....	50,000 00	.....	.....
259,177 96	.....	259,177 96	.....	.....
259,177 96	.....	259,177 96	.....	.....
.....	.....	.....	.....	.....
4,727,343 30	.....	4,727,343 30	.....	17,700 00

*Credits to General Accounts.	
Constructing sewers ..	8,535 42
Repairing streets.	2,417 62
	$10,953 04

No. 7.—STATEMENT OF SIX MILLION 1940 PUBLIC

Accounts.	Authorized Appropriation.	Actual Appropriation.
Court House and Record Building	$1,500,000 00	$1,500,000 00
Court House furnishing	250,000 00	250,000 00
Topographical Survey	125,000 00	125,000 00
*School-houses and lots, totals	400,000 00	399,312 88
Completed to December 31, 1897		232,312 88
Lot and building, Baltimore City College		167,000 00
Opening streets, totals	300,000 00	300,000 00
Completed to December 31, 1897		171,599 66
Opening McCulloh street		79,405 37
Widening Union Dock		48,994 97
Conduits for underground wires	225,000 00	225,000 00
*Building bridges, totals	600,000 00	587,000 78
Completed to December 31, 1897		587,000 78
Paving streets, totals	1,600,000 00	1,600,000 00
*Constructing sewers, totals	1,000,000 00	985,468 08
Completed to December 31, 1897		804,825 16
Eager street		16,000 00
Stockholm street		40,000 00
Lanvale and Stricker streets		40,000 00
Clifton avenue		7,354 64
Vine street		1,796 34
Brice alley and Mosher street		48,000 00
Broadway		2,191 94
Harris Creek		24,000 00
Beech avenue culvert		500 00
Inlets Mosher Street sewer		800 00
Totals	6,000,000 00	5,971,781 74
Received from Commissioners of Finance.	5,754,000 00	
Total expenditures to date	5,655,701 72	
Balance on hand	$98,298 28	

IMPROVEMENT LOAN TO DECEMBER 31, 1898.

Expenditures to Dec. 31, 1897.	Expended in 1898.	Total Expenditures to date.	Balance. Dr.	Balance. Cr.
$1,174,874 10	$325,125 90	$1,500,000 00		
	874 10	874 10		$249,125 90
125,000 00		125,000 00		
383,876 93	15,435 95	399,312 88		
232,312 88		232,312 88		
151,564 05	15,435 95	167,000 00		
297,495 85		297,495 85		2,504 15
171,599 66		171,599 66		
77,658 01		77,658 01		1,747 36
48,238 18		48,238 18		756 79
225,000 00		225,000 00		
587,000 78		587,000 78		
587,000 78		587,000 78		
1,600,000 00		1,600,000 00		
847,143 58	73,874 53	921,018 11		64,449 97
804,825 16		804,825 16		
12,155 24	517 10	12,672 34		3,327 66
10,025 32		10,025 32		29,974 68
15,555 14	17,607 70	33,162 84		6,837 16
4,582 72	2,771 92	7,354 64		
	1,796 34	1,796 34		
	40,843 63	40,843 63		7,156 37
	2,191 94	2,191 94		
	7,891 09	7,891 09		16,108 91
				500 00
	254 81	254 81		545 19
5,240,391 24	415,310 48	5,655,701 72		316,080 02

*Credits to General Accounts.

School-houses and lots...	$ 687 12
Building bridges.....	12,999 22
Constructing sewers	14,531 92
	$28,218 26

No. 8.—STATEMENT OF FOUR MILLION

Accounts.	Authorized Appropriation.	Actual Appropriation.
New Court House	$1,000,000 00	$1,000,000 00
Public Parks	1,000,000 00	792,588 05
Clifton Park		722,366 30
Carroll Park extension		70,221 75
Enlargement of water supply	2,000,000 00	2,000,000 00
Totals	$4,000,000 00	$3,792,588 05
Received from Coms. of Finance	2,361,000 00	
Total expenditures to date	2,294,940 37	
Balance on hand	$66,059 63	

1945 LOAN TO DECEMBER 31, 1898.

Expended to Dec. 31, 1897.	Expended in 1898.	Total Expenditures to date.	Balance. Dr.	Balance. Cr.
.....	$165,862 97	$165,862 97	.....	$834,137 03
$722,366 30	70,221 75	792,588 05	.....	207,411 95
722,366 30	.....	722,366 30	.....	.....
.....	70,221 75	70,221 75	.....	.....
729,612 51	606,876 84	1,336,489 35	.....	663,510 65
$1,451,978 81	$842,961 56	$2,294 940 37	.....	$1,705,059 63
.....	.....	.....	.....	.....
.....	.....	.....	.....	.....
.....	.....	.....	.....	.....

STATEMENT No. 9.—STREETS OPENED, WIDENED AND CLOSED BY CONDEMNATION.

	Ordinances.		Jan. 1, 1898.	Jan. 1, 1898.	Expenditures in '98.	Receipts in 1898.	Balance.	Balance.
	No.	Year.	Dr. Balance.	Cr. Balance.			Dr.	Cr.
Alley between Eden and Spring streets	97	1883	$13 00		$15 00	$5 00	$23 00	
Burke street	162	1889		$888 00	35,717 64	38,041 94		$3,212 30
Beason "	93	1885	141 23				141 23	
Baxter "	103	1898			240 17		240 17	
Bouldin alley	106	1887		650 90				650 90
Brunt street	100	1894		560 98				560 98
*Burrow street	95	1892		497 82	798 00	525 33		225 15
*Bradford street	96	1895	414 65		9,132 08	9,537 21	9 52	
Burke "	224	1884		71 46				71 46
Chew "	88	1893		182 36	9,190 25	10,442 19		1,434 30
Curley "	102	1898			165 06		165 06	
Castle "	124	1894		765 47		2,716 23		3,481 70
Chase "	114	1893	316 75				316 75	
Chesapeake "	127	1896	352 96		25 00	497 25		119 29
	82	1896						
" "	126	1896	593 19			568 19	25 00	
Clement "	163	1896		2,099 11	4,133 42	1,784 05	250 26	
Cooksie "	24	1887		75 00				75 00
Collington avenue	4	1896		1,599 57	11,282 00	11,373 19		1,690 76
Clarkson alley	112	1884	517 25		50 00	1,007 25		440 00
Dallas street	50	1891		333 43				333 43
" "	115	1888	42 80				42 80	
Ducatel "	83	1898			214 98		214 98	
Ensor "	44	1892		8,275 82	1,082 00	150 00		7,343 82
Etting "	71	1892		48 77				48 77
Florence "	99	1889	497 00				497 00	
Frances "	101	1889	226 00				226 00	
Fairmount avenue	131	1893		1,778 12	2,412 39	1,291 25		656 98

Fulton avenue	105	1892	61 65				61 65	
Grove street	138	1896	327 50		79 53	570 00		162 97
Glover "	149	1896	423 15		11,700 43	13,697 11		1,573 53
*Great Constitution street	43	1895		190 30	2,337 50	2,247 70		100 50
Hoffman street	66	1897	170 55		99 83	460 08		189 70
*Hollins "	75	1889		642 45		160 00		802 45
Jefferson "	71	1897	20 52		169 93		190 45	
*Lanvale "	89	1891		352 97	315 00	177 50		215 47
*Ludlow "	72	1892		225 53	502 74	502 74		225 53
Maryland avenue	167	1896	19 95				19 95	
Morris street	103	1889	465 30		29 25		494 55	
Marshall street	62	1897	155 97		128 69	14 00	270 66	
Neighbor "	106	1894	30 25				30 25	
Northwest "	65	1897	190 67		187 63	903 36		525 06
Ninth or Barnum street	101	1891		136 33				136 33
Payson street	94	1898			237 24		237 24	
Patterson avenue	98	1889		1,417 26				1,417 26
Payson street	130	1891		20 49		5,977 13		5,997 62
Pulaski "	131	1891	97 76			3,530 92		3,433 16
Porter "	171	1890	159 18				159 18	
Paca "	23	1887	92 94		61 55	421 89		267 40
*Port "	50	1896		393 67	10 00			383 67
Patuxent "	47	1884		124 26	18,802 39	34,392 62		15,711 49
Patapsco "	39	1883		715 14				715 14
*Port street or alley	95	1895	565 38		10,838 33	11,241 68	162 03	
Race street	113	1884	462 55				462 55	
" "	139	1875		946 60				946 60
St. Paul street	68	1897	248 46		121 00		369 46	
*Smallwood street	179	1893	420 46				420 46	
*Stevenson "	69	1897	198 59		3,537 30	3,899 24		163 35
(Seventy ft. street)	133	1893		1,611 29				1,611 29
Tenth or Holmes street	75	1889		4,613 13	4,760 25	1,437 50		1,290 38
West street	94	1892	11 30		58 51	202 01		132 20
West Baltimore street	37	1889	61 88				61 88	
Whitelock street	105	1898			374 66		374 66	
Wolfe street	112	1898			31 35		31 35	

STATEMENT No. 9.—Concluded.

	Ordinances. No.	Ordinances. Year.	Jan. 1, 1898. Dr. Balance.	Jan. 1, 1898. Cr. Balance.	Expenditures in '98.	Receipts in 1898.	Balance. Dr.	Balance. Cr.
Closing Streets.								
Fourth lane or street	131	1896		$55 00				$55 00
Gilmor's lane	146	1896	$482 82				$482 82	
*Kirby's "	116	1886			$273 92	$657 18		383 26
*Kirby's alley	104	1886			98 91		98 91	
*Morris "	150	1890	15 00				15 00	
West Falls lane	87	1898			82 83		82 83	
Widening Streets.								
*East and Chesnut streets	95	1896			248 41		248 41	
			$7,796 66	$29,304 23	$129,545 17	$158,431 74	$6,426 06	$56,820 20
Credit balance Jan. 1, 1898			21,507 57					
Excess of receipts over expenditures in 1898					28,886 57			
Credit balance Dec. 31, 1898							50,394 11	
			$29,304 23	$29,304 23	$158,431 74	$158,431 74	$56,820 20	$56,820 20

Balance December 31, 1898		$50,394 14
*Street completed and balances closed to Mayor and City Council account		1,294 79
Credit balances carried forward to 1899		$49,099 35
Receipts from City Collector, individual benefits	$53,529 88	
" " " " city "	104,741 86	
" " old material	160 00	
	$158,431 74	

Statement No. 10.—STREETS PAVED AND PAID BY ASSESSMENT.

	Ordinances. No.	Ordinances. Year.	Jan. 1, 1898. Dr. Balance.	Jan. 1, 1898. Cr. Balance.	Expenditures in '98.	Receipts in 1898.	Balance. Dr.	Balance. Cr.
*Alley between Robinson street and East avenue	H.	D.	$120 84			$120 84		
*Alley between Union street and Third ave	H.	D.	6 50				$6 50	
*Alley between McKim and Hillman streets	13	1897		$64 58	$64 58			
*Alley between Eighth and Ninth streets	H.	D.	1,382 03		144 97	248 27	1,278 73	
*Andre street	162	1893		2,465 27	2,465 27	11 45		$11 45
*Beason "	90	1894		529 27	1,407 44		878 17	
*Castle "	124	1893		153 96	1,503 23	1,349 27		
Collington avenue	80	1897	15 30		1,171 65	6,166 07		1,976 12
*Cannon street	100	1895		3,577 22	2,580 44			996 78
*Carey "	151	1896		1,494 68	1,494 68			
*Calhoun "	161	1896		546 12	800 12	80 54	173 46	
Druid Hill avenue	81	1897	13 92		244 29	258 21		
*Durham street	35	1897	12 54		1,643 02	1,655 53		
Forrest "	126	1898			29 59		29 59	
*Gunpowder street	97	1894	25 35				25 35	
*Girard avenue	27	1897	54 68		1,323 52	1,378 20		
Hamburg street	101	1895	255 26		1,028 94		1,284 20	
*Henry "	58	1898			512 59	512 59		
*Kirby's lane	64	1897	38 00		1,393 09	1,431 09		
*Little Forrest street	64	1897	455 70			455 70		
*Marshall "	76	1897	10 58		27 97		38 55	
Monroe "	95	1894	46 38				46 38	
*McElderry "	104	1895	159 98				159 98	

STATEMENT No. 10 —Concluded.

	Ordinances. No.	Ordinances. Year.	Jan. 1, 1898. Dr. Balance.	Jan. 1, 1898. Cr. Balance.	Expenditures in '98.	Receipts in 1898.	Balance. Dr.	Balance. Cr.
McCulloh alley	H.	D.			$ 38 24		$38 24	
*Mulberry street	14	1897	$6 17		426 74	$432 91		
*Madison "	12	1897		$4,618 99	4,774 88	155 89		
North avenue	123	1896		3,821 92	1,713 54			$2,108 38
*Pulaski street	23	1897	42 82		2,835 07	2,877 89		
*Payson "	60	1897	42 74		677 38	720 12		
*Riggs avenue	11	1895	2,339 40				2,339 40	
Richardson street	91	1894	38 50		1,577 90	1,616 40		
*Scott "	129	1894	57 82		1,885 38	1,812 89	130 31	
*Twenty-first "	H.	D.	26 63		414 63	441 26		
*Twenty-third and a-half street	H.	D.	530 33			530 33		
*Twenty-first and a-half street	H.	D.	587 39			587 39		
Twenty-third street	142	1896	70 11		3,062 09	3,184 46		52 26
*Paving footways			254 94				254 94	
			$ 6,593 88	$17,272 01	$38,244 24	$26,027 30	$6,683 80	$5,144 99
Cr. balance Jan. 1, 1898			10,678 13					
Excess of expenditures over receipts, 1898						12,216 94		
Dr. balance Dec. 31, 1898								1,538 81
			$17,272 01	$17,272 01	$38,244 24	$38,244 24	$6,683 80	$6,683 80

*Work completed and balances closed to Mayor and City Council account	$4,277 16
Less Dr. balance December 31, 1898	1,538 81
Cr. balance carried forward to 1899	$2,738 35

STATEMENT No. 11.

J. FRANK SUPPLEE, REGISTER, IN ACCOUNT WITH MAYOR AND CITY COUNCIL OF BALTIMORE.

Jan. 1—To Balance	$ 865,502 81		
" 31—To Cash	390,442 79		
Feb. 28— "	932,378 79		
Mar. 31— "	1,346,354 20		
April 30— "	614,763 70		
May 31— "	395,642 21		
June 30— "	2,830,618 57		
July 31— "	1,454,207 42		
Aug. 31— "	543,046 33		
Sept. 30— "	182,706 51		
Oct. 31— "	566,268 49		
Nov. 30— "	628,006 02		
Dec. 31— "	1,448,448 06		
Jan. 31—By Cash		$ 935,365 51	
Feb. 28— "		585,511 07	
Mar. 31— "		912,316 25	
April 30— "		1,258,580 79	
May 31— "		1,027,369 54	
June 30— "		1,846,095 67	
July 31— "		1,157,065 26	
Aug. 31— "		759,264 87	
Sept. 30— "		751,590 09	
Oct. 31— "		843,696 30	
Nov. 30— "		1,123,367 10	
Dec. 31— "		835,037 47	
Balance		493,125 95	
	$12,528,385 90	$12,528,385 90	

Statement No. 12.

LOAN CASH ACCOUNTS.

Six Million 1940 Public Improvement Loan.

1898.			
Jan. 1—By receipts from stock to date.....			$5,284,400 00
" " " " during year			469,600 00
1898.			
Jan. 1—To expenditures to date.....	$5,240,391 24		
" " during year.....	415,310 48		
" balance January 1, 1899.....	98,298 28		
	$5,754,000 00		$5,754,000 00

Five Million 1928 Internal Improvement Loan.

1899.	
Jan. 1—To balance.....	$28,653 04

Four Million 1945 Loan.

1898.			
Jan. 1—By receipts from stock to date.....			$1,420,500 00
" " " " during year			940,500 00
1898.			
Jan. 1—To expenditures to date.....	$1,451,978 81		
" " during year.....	842,961 56		
" balance Jan. 1, 1899.....	66,059 63		
	$2,361,000 00		$2,361,000 00

STATEMENT NO. 13.

RECEIPTS AND EXPENDITURES FOR THE ANNEX FOR THE YEAR 1898.

To salaries, public schools	$143,292 70	
" expenses, " "	28,367 59	
" gas	22,954 42	
" electric lights	6,555 50	
" gasoline	8,450 22	
" lamplighters	17,731 42	
" salaries, Health Department	3,799 80	
" " Fire "	53,888 03	
" expenses, " "	15,931 14	
" equipping Engine Company No. 21	14,126 32	
" salary Superintendent Street Cleaning	1,000 00	
" garbage carts and men	18,684 00	
" street " " "	8,520 00	
" sweepers and scrapers	8,868 23	
" tools	61 11	
" Inspector of Buildings, salaries	1,200 00	
" repairs of city property	3,500 00	
" Inspector of Buildings, livery	250 00	
" building Annex School No. 3	1,110 52	
" " " " " 18	3,892 81	
" " Engine House No. 20	679 00	
" " " " " 21	389 65	
" repairs, streets, roads, etc	25,703 96	
" grade establishments	468 54	
" flagstones	500 00	
" Woodbrook avenue, paving and flagging	170 89	
" refunded taxes	159 60	
" City Collector's Department	2,376 27	
" Appeal Tax Court Department	1,100 00	
" election, salaries judges and clerks	666 00	
" " room rents	385 00	
" " advertising, printing, etc	7,650 72	
" registration, salaries for registers	3,996 00	
" " room rents	770 00	
" " advertising, printing, etc	11,303 60	
" new police station	15,489 85	
By receipts from Tax Collector:		
" taxes direct		$141,538 83
" " on bonds		16,341 72
" " in arrears		59,596 50
" interest		1,349 37
" excess of expenditures over receipts		215,166 47
	$433,992 89	$433,992 89

Expenses of Police Department should be added to the above, but are not stated, as record of same for Annex has not been kept separate.

TABLES.

TABLE A.

BELAIR MARKET, DECEMBER 31, 1898.

	License.	*Rent.*	*Total,* 1898.	*Total,* 1897.
Butcher stalls	$555 00	$2,108 00	$2,663 00	$2,835 00
Permanent stalls	830 00	332 00	1,162 00	1,174 68
Eave "	980 00	196 00	1,176 00	1,184 00
Street eave "	.....	383 50	383 50	380 00
Movable "	175 00	120 00	295 00	297 00
Fish "	120 00	124 50	244 50	237 00
Street "	.....	887 50	887 50	888 50
Street season "	.....	20 00	20 00	20 00
Per diems	.....	.....	3,075 85	2,962 75
	$2,660 00	$4,171 50	$9,907 35	$9,978 93

Clerk—Charles Kleinjohn.

CANTON MARKET, DECEMBER 31, 1898.

	License.	*Rent.*	*Total,* 1898.	*Total,* 1897.
Butcher stalls	$25 00	$45 00	$ 70 00	$ 90 00
Permanent stalls	60 00	48 00	108 00	117 00
Eave "	75 00	30 00	105 00	99 15
Fish "	5 00	2 00	7 00	.....
Space "	15 00	4 00	19 00	12 00
Per diems "	.....	.....	184 20	173 40
	$180 00	$129 00	$493 20	$491 55

Clerk—Calvert Kirby.

CENTRE MARKET, DECEMBER 31, 1898.

	License.	*Rent.*	*Total,* 1898.	*Total,* 1897.
Butcher stalls	$215 00	$721 00	$936 00	$1,195 00
Permanent stalls	145 00	75 00	220 00	327 00
Eave "	400 00	80 00	480 00	442 00
Street eave "	.....	160 00	160 00	140 00
Movable "	275 00	104 00	379 00	434 00
Gutter "	.....	395 00	395 00	420 00
Permanent fish stalls	210 00	144 00	354 00	366 00
Eave " "	185 00	88 00	273 00	201 00
Street eave " "	.....	115 00	115 00	130 00
Gutter " "	.....	105 00	105 00	120 00
Per diems	.....	.....	1,845 50	1,921 25
	$1,430 00	$1,987 00	$5,262 50	$5,696 25

Clerk—James Thayer.
Assistant Clerk—Charles C. Sanner.

CROSS STREET MARKET, DECEMBER 31, 1898.

	License.	*Rent.*	*Total,* 1898.	*Total,* 1897.
Butcher stalls	$300 00	$543 00	$843 00	$841 00
Permanent stalls	.....	425 00	425 00	435 00
Eave "	.....	695 00	695 00	705 00
Street "	.....	320 00	320 00	320 00
Fish "	60 00	60 00	120 00	120 00
Per diems	.....	.....	1,990 25	2,011 00
	$360 00	$2,043 00	$4,393 25	$4,432 00

Clerk—Leonard G. Wicklein.

FELLS POINT MARKET, DECEMBER, 1898.

	License.	*Rent.*	*Total,* 1898.	*Total,* 1897.
Butcher stalls	$325 00	$1,220 00	$1,545 00	$1,495 00
Permanent stalls	280 00	392 00	672 00	1,119 00
Eave "	310 00	428 00	738 00	444 00
Space "	652 50	880 50	1,533 00	1,485 00
Movable "	205 00	76 00	281 00	301 00
Fish "	65 00	52 00	117 00	117 00
Street "	.....	407 50	407 50	294 50
Per diems	.....	.....	1,417 05	1,440 95
	$1,837 50	$3,456 00	$6,710 55	$6,696 45

Clerk—P. J. Campbell.

HANOVER MARKET, DECEMBER 31, 1898.

	License.	*Rent.*	*Total,* 1898.	*Total,* 1897.
Butcher stalls	$260 00	$850 50	$1,110 50	$1,233 00
Permanent stalls	325 00	195 00	520 00	520 00
Eave "	360 00	144 00	504 00	518 00
Fish "	80 00	50 00	130 00	122 00
Street "	.....	513 00	513 00	542 50
Per diems	.....	.....	1,118 25	1,139 80
	$1,025 00	$1,752 50	$3,895 75	$4,075 30

Clerk—Alonzo Jones.

HOLLINS MARKET, DECEMBER 31, 1898.

	License.	*Rent.*	*Total.* 1898.	*Total.* 1897.
Butcher stalls	$205 00	$504 00	$709 00	$679 00
Permanent stalls		190 00	190 00	180 00
Fish "		60 00	60 00	55 00
Eave "		216 00	216 00	212 50
Space "		195 00	195 00	195 00
Street eave "		120 00	120 00	115 00
Pavement "		25 00	25 00	25 00
Street "		618 10	618 10	556 00
End "		50 00	50 00	60 00
Nine months "		12 00	12 00	12 00
Three " "		12 00	12 00	12 00
Per diems			1,495 70	1,567 60
	$205 00	$2,002 10	$3,702 80	$3,669 10

Clerk—Thos. J. Robosson.

LAFAYETTE MARKET, DECEMBER 31, 1898.

	License.	*Rent.*	*Total.* 1898.	*Total.* 1897.
Butcher stalls		$360 00	$360 00	$301 67
Permanent stalls		541 00	541 00	526 00
Eave "		533 00	533 00	494 00
Space "		45 00	45 00	40 00
Street eave "		45 00	45 00	30 00
Street "		60 00	60 00	50 00
Per diems			1,218 05	1,289 40
		$1,584 00	$2,802 05	$2,731 07

Clerk—Philip Engle.

LEXINGTON MARKET, DECEMBER 31, 1898.

	License.	*Rent.*	*Total.* 1898.	*Total.* 1897.
Butcher stalls	$545 00	$2,080 00	$2,625 00	$2,760 00
Permanent stalls	1,110 00	888 09	1,998 00	1,926 00
Eave "	1,110 00	444 00	1,554 00	1,526 00
Movable "	220 00	88 00	308 00	308 00
Fish "	245 00	98 00	343 00	336 00
Vegetable "	245 00	343 00	588 00	588 00
Lexington street stalls		1,392 50	1,392 50	1,442 50
Eutaw street stalls		262 50	262 50	252 50
Paca " "		132 50	132 50	132 50
Greene " "		85 00	85 00	85 00
Pearl " "		190 00	190 00	225 00
Pine " "		5 00	5 00	5 00
Street eave "		640 00	640 00	660 00
Per diems			5,156 75	4,151 65
	$3,475 00	$6,648 50	$15,280 25	$14,398 15

Clerk—Chas. W. Greshoff.
Assistant Clerk—Casper W. Erek.

NORTHEAST MARKET, DECEMBER 31, 1898.

	License.	*Rent.*	*Total* 1898.	*Total* 1897.
Butcher stalls	$90 00	$177 50	$267 50	$255 00
Permanent stalls	65 00	53 00	118 00	108 00
Fish "		14 00	14 00	14 00
Space "		603 50	603 50	513 50
Eave and end stalls	65 00	26 00	91 00	80 50
Street stalls		10 00	10 00	10 00
Per diems			660 20	658 50
	$220 00	$884 00	$1,764 20	$1,639 50

Clerk—Henry Ahrens.

RICHMOND MARKET, DECEMBER 31, 1898.

	License.	*Rent.*	*Total,* 1898.	*Total,* 1897.
Butcher stalls	$240 00	$511 50	$751 50	$764 50
Permanent stalls	135 00	162 00	297 00	319 00
Eave "	155 00	130 00	285 00	285 00
Aisle "		80 00	80 00	80 00
Movable "	87 50	22 50	110 00	110 00
Fish "	100 00	100 00	200 00	203 35
Street "		315 00	315 00	302 50
Space "		285 00	285 00	310 00
Per diems "			1,671 90	1,659 30
	$717 50	$1,606 00	$3,995 40	$4,033 65

Clerk—John B. Zink.

TABLE A.—Continued.

COMPARATIVE STATEMENT OF PER DIEM RECEIPTS FROM DIFFERENT MARKETS.

Markets.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total, 1898.	Total, 1897.
Belair.....	$217 25	$200 05	$238 20	$274 50	$276 25	$258 30	$283 70	$262 95	$260 55	$276 15	$252 95	$275 00	$3,075 85	$2,962 75
Canton.....	13 00	11 30	13 20	17 00	15 70	15 10	16 60	15 70	16 10	18 90	15 80	15 80	184 20	173 40
Centre	128 65	118 05	151 90	167 30	157 50	169 30	162 95	168 10	147 45	166 15	164 65	143 50	1,845 50	1,921 25
Cross street.	136 50	129 55	145 70	160 00	174 40	166 30	192 70	186 75	181 90	188 95	162 75	164 75	1,990 25	2,011 00
Fells Point.	107 65	110 10	118 10	126 10	127 70	114 10	126 35	118 45	116 30	113 90	116 50	121 80	1,417 05	1,440 95
Hanover ...	80 90	72 30	86 70	95 70	96 65	101 00	96 70	100 95	99 90	105 90	85 50	96 05	1,118 25	1,139 80
Hollins	106 50	88 50	112 15	123 95	114 55	134 65	139 20	138 75	125 10	140 70	137 80	133 85	1,495 70	1,567 60
Lafayette ..	76 20	70 70	105 30	96 90	133 00	106 40	99 55	124 00	106 30	123 20	91 20	85 30	1,218 05	1,289 40
Lexington .	407 25	386 25	430 30	469 80	439 35	407 55	466 00	440 85	424 85	427 15	409 95	447 45	5,156 75	4,151 65
Northeast ..	43 50	44 40	50 70	60 80	52 60	56 60	62 20	58 80	57 40	62 20	54 90	56 10	660 20	658 50
Richmond..	131 00	120 70	138 70	138 10	137 90	149 80	136 75	136 50	147 30	152 55	127 85	154 75	1,671 90	1,659 30
													$19,833 70	$18,975 60

Increase over 1897, $858.10.

TABLE A.—Concluded.

COMPARATIVE STATEMENT SHOWING RECEIPTS AND EXPENDITURES OF THE DIFFERENT MARKETS.

	1898.		1897.	
	Dr.	*Cr.*	*Dr.*	*Cr.*
Belair Market	$506 70	$9,897 35	$506 00	$9,978 93
Canton "	176 08	493 20	175 16	473 55
Centre "	647 80	5,262 50	646 50	5,714 25
Cross st. "	339 51	4,393 25	312 00	4,432 00
Fells Pt. "	568 76	6,710 55	520 20	6,696 45
Hanover "	443 21	3,895 75	435 96	4,075 30
Hollins "	332 30	3,702 80	324 00	3,669 10
Lafayette "	260 28	2,802 05	275 77	2,731 07
Lexington "	661 10	15,280 25	684 30	14,398 15
Northeast "	307 05	1,764 20	340 35	1,639 50
Richmond "	410 75	3,995 40	406 05	4,033 65
		$58,197 30	$4,626 29	$57,841 95
Less expenses	$4,653 54	4,653 54		4,626 29
		$53,543 76		$53,215 66
Increase over 1897				328 10
		$53,543 76		$53,543 76

TABLE B.—PUBLIC HALLS.

HOLLINS HALL.

	1898.		1897.	
By rent		$128 00		$182 00
To expense, cleaning, etc	$74 00		$ 71 25	
To net revenue	54 00		110 75	
	$128 00	$128 00	$182 00	$182 00

CROSS STREET HALL.

	1898.		1897.	
By rent		$305 00		$393 10
To expense, cleaning, etc	$ 98 80		$ 97 14	
To net revenue	206 20		295 96	
	$305 00	$305 00	$393 10	$393 10

BROADWAY HALL.

	1898.	
By rent		$112 00
To expense, cleaning, etc	$78 97	
To net revenue	33 03	
	$112 00	$112 00

TABLE C.

GENERAL LICENSES.

	1898.	1897.
Wagons, one horse	$18,368 25	$18,443 67
" two and three horse	10,678 70	10,419 15
" four and more horse	927 50	934 90
Carts	4,103 90	4,471 60
Drays	236 05	262 70
Peddlers	798 00	903 00
Hacks, cabs, cars and omnibuses	3,668 30	3,549 45
Package carts	713 90	637 75
Lighters	806 20	800 16
Bacon, market	2,287 45	1,575 00
Sausage and pudding, market	646 15	232 55
Merchandise (women) market	268 75	215 80
Telegraph poles	13,264 00	13,464 00
Foreign fruit	536 85	446 25
Billiard tables	2,349 91	1,936 10
Bagatelle tables	653 40	658 35
Pawnbrokers	883 33	800 00
Dogs (prior to June 15)	521 15	742 25
Coal oil	1,806 35	1,719 40
Theatrical	3,429 00	3,619 75
	$66,947 14	$65,831 83
Increase over 1897		1,115 31
	$66,947 14	$66,947 14

TABLE D.

RECEIPTS FROM WHARFAGE FOR THE TWELVE MONTHS ENDING DECEMBER 31, 1898.

	1st Dis.	2d Dis.	3d Dis.	4th Dis.	5th Dis.	Total.
January	$58 25	$230 20	$236 49	$562 50	$1,363 06	$2,450 50
February	45 15	204 08	191 56	552 50	1,201 19	2,194 48
March	52 90	175 22	180 24	557 25	1,404 30	2,369 91
April	45 55	221 49	406 23	549 25	2,002 77	3,225 29
May	51 00	311 58	249 79	470 75	1,704 21	2,787 33
June	57 25	281 07	435 81	425 15	1,865 29	3,064 57
July	36 00	468 93	533 49	425 10	1,645 86	3,109 38
August	46 00	443 78	501 09	394 19	1,419 04	2,804 10
September	52 75	430 13	655 85	965 18	1,721 95	3,825 86
October	34 00	455 68	457 56	588 53	1,530 66	3,066 43
November	58 00	260 92	401 12	565 75	1,614 04	2,899 83
December	64 40	223 54	349 76	646 66	1,285 47	2,569 83
1898	$601 25	$3,706 62	$4,598 99	$6,702 81	$18,757 84	$34,367 51
1897	$682 50	$3,676 01	$3,930 23	$6,256 16	$18,704 12	$33,249 02

STATEMENT.

	1898.	1897.
Amount paid to harbor masters	$6,873 50	$6,644 32
" " " boatmen	1,200 00	1,166 66
" " " rent, incidentals, etc	507 14	527 47
Net receipts	25,786 87	24,910 57
	$34,367 51	$33,249 02
Increase net revenue over 1897		$876 30

HARBOR MASTERS.

Chas. J. M. Taylor.....1st District.	Francis Carter.....4th District.
August Langeluttig.....2d "	Charles Bangs.....5th "
Emanuel H. Jacobi.....3d "	

TABLE E.

DOG POUND.

(January 1 to June 15, 1898, inclusive.)

By dogs redeemed		$212 25
" " sold		16 00
" " carcasses		19 27
By total revenue received		$247 52
" appropriation		1,300 00
To dog catchers	$580 45	
" rent of lot	375 00	
" fuel and expenses	41 55	
" unexpended balance	550 52	
	$1,547 52	$1,547 52

DOG LICENSES AND FINES.

(Ordinance No. 96, June 15, 1898, from June 16 to December 31, 1898, inclusive.)

By amount received for licenses and renewals		$34,483 65
By amount received for dogs sold, redeemed and carcasses		312 35
By amount received for fines		35 00
To amount paid Society for Prevention of Cruelty to Animals	$3,750 00	
To amount tags	233 12	
" " printing licenses	35 00	
" " rent of pound	75 00	
" " fines remitted	10 00	
" " released by S. P. C. to A	4,000 00	
" " balance	26,727 88	
	$34,831 00	$34,831 00

FINES.

Magistrates.		$425 50
By Central Station		171 50
" Western "		491 50
" Northwestern Station		467 00
" Southern "		384 00
" Southwestern "		339 00
" Eastern "		283 00
" at-large		161 00
" substitute		3 00
" Sheriff		2,732 59
To amount remitted by the Mayor	$ 371 90	
" net revenue	5,086 19	
	$5,458 09	$5,458 09

TABLE F.

SUPERIOR COURT No. 1.

Bailiffs	$4,437 50
Stenographer	1,500 00
Watchmen	420 00
Jurors	5,723 50
Clerks' fees	2,316 65
Sheriff's fees	380 00
Extra stenographer	50 00
	$14,827 65
Unexpended balance	3,172 35
Appropriation	$18,000 00

SUPERIOR COURT No. 2.

Stenographer	$170 00
Two bailiffs (one month)	250 00
	$ 420 00
Unexpended balance	1,580 00
Appropriation	$2,000 00

CRIMINAL COURT No. 1.

Bailiffs	$ 7,500 00
Grand jurors	8,326 50
Petit "	7,105 78
Clerks' fees	15,403 30
Sheriff's fees	20,759 20
Professional services	40 00
Witness fees	468 11
Stenographers	1,779 08
Attorneys	415 00
Meals for jurors	242 45
Printing	165 13
State's Attorney	12,988 06
Expert testimony	235 35
Examinations	35 00
Interpreters	44 00
Surveying	20 00
Directories	18 00
Car fare and mileage	168 52
Expenditures	$75,713 48
Less amount in excess of appropriation	5,713 48
Appropriation	$70,000 00

CRIMINAL COURT No. 2.

Bailiffs	$3,829 17
Jurors	5,703 80
Stenographer	40 00
State's Attorney	4,485 20
Meals	215 40
	$14,273 57
Less amount expended in excess of appropriation	4,273 57
Appropriation	$10,000 00

COURT OF COMMON PLEAS.

Stenographer	$1,500 00
Bailiffs	3,000 00
Watchman	1,000 00
Jurors	5,917 50
Clerk's fees	1,457 75
Habeas corpus	374 87
Stamps	8 00
Sheriff's fees	392 80
Stationery	342 40
	$13,993 32
Unexpended balance	4,006 68
Appropriation	$18,000 00

COURT OF COMMON PLEAS No. 2.

Jurors	$609 00
Stenographer	180 00
	$789 00
Unexpended balance	711 00
Appropriation	$1,500 00

BALTIMORE CITY COURT NO. 1.

Bailiffs	$4,500 00
Jurors	6,169 15
Habeas corpus	229 85
Advertising	26 25
Stenographers	1,450 80
Clerk's fees	1,584 00
Stationery	95 89
Sheriff's fees	350 80
Expenditures	$14,406 74
Unexpended balance	593 26
Appropriation	$15,000 00

BALTIMORE CITY COURT NO. 2.

Jurors	$2,445 50
Clerk's fees	312 85
Stenographers	90 00
Sheriff's charges	184 80
Stationery	95 89
Amount expended	$3,129 04
Less in excess of appropriation	1,129 04
Appropriation	$2,000 00

CIRCUIT COURT No. 1.

Bailiffs	$3,000 00
Watchman	900 00
Clerk's fees	231 25
Stationery	169 75
Expenditures	$4,301 00
Amount in excess of appropriation	101 00
Appropriation	$4,200 00

CIRCUIT COURT NO. 2.

Bailiffs' salaries	$3,000 00
Watchman	900 00
Clerk's fees	94 60
Stationery	74 85
	$4,069 45
Unexpended balance	130 55
Appropriation	$4,200 00

ORPHANS' COURT.

Judges' salary	$7,470 00
Bailiffs' salary	1,252 00
	$8,722 00
Less amount expended in excess of appropriation	1,722 00
Appropriation	$7,000 00

SUPREME BENCH.

To Judges' salary	$4,416 66
" Jury list	225 00
" rent of Raine's Hall	10 00
" stationery	8 00
	$4,659 66
Less amount in excess of appropriation	159 66
Amount of appropriation	$4,500 00

JUDGE-AT-LARGE.

To bailiffs	$6,000 00
Appropriation	$6,000 00

POLICE DEPARTMENT.

Salaries:		
3 Commissioners	$ 7,500 00	
1 Secretary	2,000 00	
1 Asisstant Secretary	1,200 00	
3 Physicians, $1,000 each	3,000 00	
1 Marshal	2,500 00	
1 Deputy Marshal	2,000 00	
1 Clerk to Marshal, 52 weeks at $25 00	1,300 00	
8 Captains, 52 weeks at $30 00.	12,480 00	
16 Lieutenants, 52 weeks at $25 00	20,800 00	
15 Detectives, 52 weeks at $23 00	17,940 00	
14 Round Sergeants, 52 weeks at $23 00	16,744 00	
74 Squad Sergeants, 22 weeks at $20 00	32,560 00	
81 Squad Sergeants, 30 weeks at $20 00	48,600 00	
7 Squad Sergeants, part of month of May	185 70	
620 Patrolmen, 52 weeks at $18 00	580,320 00	
14 Turnkeys, 52 " " $18 00	13,104 00	
7 Station House Clerks, 52 weeks at $18 00	6,552 00	
35 Probationary Officers, 18 weeks at $12 00	7,560 00	
50 Probationary Officers, 34 weeks at $12 00	20,400 00	
14 Matrons, 52 weeks at $10 00..	7,280 00	
		$804,025 70
Expense Account:		
Counsel	$1,600 00	
Gas and electric lighting	3,014 18	
Rental of gas governors	70 00	
Badges, numbers, etc	61 40	
Ice	281 07	
Fuel	1,980 50	
Stationery	1,761 10	
Advertising	122 82	
Revolvers and ammunition	305 63	
Electrical supplies and works	1,123 87	
Belts, clubs and holsters	776 65	
Station House supplies, cleaning, etc	3,683 11	
Rent of stables	1,110 50	
Horses	1,445 00	
Harness and wagons	1,535 34	
Hostlers	2,730 00	
Miscellaneous stable expenses	275 61	
Shoeing of horses	976 18	
Feed	3,606 03	
Carried forward	$26,458 99	$804,025 70

Brought forward		$26,458 99	$804,025 70	
Meals for prisoners and officers election day		482 42		
Incidental expenses, headquarters		1,531 43		
Rent of telephones		805 37		
Bicycles and maintenance		317 82		
Repairs to station houses		3,509 10		
Police Patrol Boat, repairs	$2,693 96			
Police Patrol Boat, supplies	1,168 81			
Police Patrol Boat, engineers and firemen	3,432 00			
Police Patrol Boat, insurance	150 00			
		7,444 77		
			40,549 90	
New Station House, Annex:				
H. Brauns, architect		$ 1,811 25		
Geo. Mann, contractor		13,614 08		
Water service		31 52		
Survey of lot		45 00		
Advertising		56 92		
			15,591 77	
Total expenses in 1898			$860,167 37	
Appropriation for salaries		$800,292 00		
" " expenses		35,000 00		
" " new station house		25,000 00		
				$860,292 00
Unexpended balance			124 63	
Total appropriation			$860,292 00	$860,292 00

Table H.

ELECTIONS, 1898.

Salaries of judges and clerks	$5,463 00
Advertising	4,178 64
Printing	645 84
Room rent	3,059 00
Election booths	1,871 10
Storage of election booths	377 08
Stationery	188 65
Insurance on booths	44 80
Hauling books and furniture	42 25
Candles	32 93
Court charges	238 44
Clerk hire	62 00
	$16,203 73
Unexpended balance	1,796 27
Appropriation	$18,000 00

REGISTRATION, 1898.

Judges and clerks	$33,388 00
Clerk hire	895 00
Advertising	4,718 42
Printing	3,958 45
Stationery and books	1,485 29
Court charges	123 69
Meals	9 00
Room rent	6,181 00
Assistance to counsel	100 00
Stamps, postals, etc	10 00
	$50,868 85
Unexpended balance	131 15
Appropriation, 1898	$51,000 00

TABLE I.

RENTALS ON CITY PROPERTY FOR 1898.

Grammar School No. 2, ground rent		$244 44
" " " 4, "		675 00
" " " 5, "		600 00
" " " 6, "		800 00
" " " 7, "		1,351 00
" " " 8, "		700 00
" " " 10, "		175 00
" " " 11, "		19 00
" " " 12, "		620 62
" " " 13, "		25 00
" " " 15, "		400 00
" " " 16, "		350 00
" " " 17, "		581 25
" " " 18, "		830 66
" " " 21, "		620 00
Primary " " 2, "		250 00
" " " 4, "		270 00
" " " 5, "		600 00
" " " 6, "		157 50
" " " 8, "		351 34
" " " 10, "		200 00
" " " 11, "		757 90
" " " 12, "		268 00
" " " 13, "		530 00
" " " 14, "		840 00
" " " 15, "		700 00
" " " 16, "		790 00
" " " 17, "		217 00
" " " 18, "		315 00
" " " 20, "		592 00
" " " 21, "		384 00
" " " 22, "		177 50
" " " 23, "		150 00
" " " 26, "		126 00
" " " 27, "		274 50
" " " 28, "		270 00
" " " 29, "		570 00
" " " 30, "		750 00
" " " 31, "		228 00
" " " 34, "		385 00
Grammar and Primary School No. 1, ground rent		354 00
" " " " " 3, "		900 00
" " " " " 19, "		1,020 00
Female Grammar and Primary School No. 1, ground rent		1,094 75
English-German School No. 1, ground rent		1,297 50
" " " 2, "		372 50
" " " 3, "		1,300 00
" " " 4, "		501 75
" " " 6, "		480 00
Carried forward		$25,465 31

Brought forward	$25,465 31
Annex School No. 7, ground rent	22 50
" " " 8, "	480 00
" " " 10, "	360 00
" " " 11, "	290 00
" " " 18, "	1,155 00
Annex Colored School No. 1, ground rent	50 00
Colored School No. 2, ground rent	225 00
" " " 3, "	312 00
" " " 4, "	70 00
" " " 5, "	70 00
" " " 6, "	300 00
" " " 7, "	480 00
" " " 8, "	959 75
" " " 9, "	630 00
Western Female High School, ground rent	1,188 00
Eastern " " " "	615 90
Baltimore City College, ground rent	4,600 00
Baltimore Polytechnic Institute, ground rent	220 00
Colored High and Grammar School No. 1, ground rent	600 00
	$38,093 46
Engine House No. 2, ground rent	62 50
" " 3, "	150 00
" " 6, "	62 00
" " 7, "	156 00
" " 11, "	123 75
" " 12, "	150 00
Hook and Ladder No. 1, "	100 00
Engine House No. 1, Annex, "	61 50
" " 2, " "	72 00
" " 4, " "	75 00
" " 6, " "	40 00
	$39,146 21
Northeast Market, ground rent	1,200 00
Cross Street Market, "	974 00
Lexington Market, "	228 00
	$41,548 21
Central Police Station, ground rent	120 00
City Hall, "	56 00
Old City Hall, "	306 00
Collington Square, "	960 00
Riverside Park, "	3,770 62
Perkins Spring, "	2,052 06
Federal Hill Park, "	37 50
Lot on Stiles street, "	160 00
Belair lot, "	540 00
	$49,550 33

Of this amount the Finance Commissioners receive $19,537.12.

TABLE J.—JUDGMENTS AND SUITS.

		Dr.
To Otto J. Fischer		$ 42 00
" Barreda Turner, clerk		231 20
" J. F. Ford, clerk		93 60
" Thomas Ireland Elliott		97 75
" George T. Tyler		200 00
" King Bros		153 00
" H. N. Bankard		375 00
" Samuel F. Sharretts		200 00
" Edward H. Fowler		30 00
" Hiram Woods & Co		225 00
" James E. Carr, Jr		12 40
" John E. Semmes		46 70
" George J. Schlichthorn		225 00
" Dennis Claude		240 35
" H. A. Stump, attorney for Mary A. Riley		250 00
" Walter J King		12 25
" Robert Ogle, clerk		115 80
" William H. Brennaman		23 40
" J. W. Leakin, attorney for estate of Enoch Pratt		68 65
" Allen Rutherford, clerk		242 55
" Ellen and James Quinn		150 00
" Sarah R. Green, administratrix		872 55
" Frank Gosnell, attorney		25 00
" Keeley Institute		100 00
" J. H. Dietrich & Co		6 00
" John Perles		15 00
" John B. Keplinger		8 95
" Albert C. Ritchie		126 66
" James E. Wilkinson, stenography		50 70
" C. J. Chesney, stenography		13 52
" Anne Arundel Examiner		31 05
" John I. Yellott		620 58
" L. Bailey		6 25
" Rosa B. Woodyear, trustee		37 50
" Robert H. Murphy		365 20
" J. M. Watkins		175 50
" James Livingston, clerk		65 05
" A. M. Sproesser, J. P		34 51
" John C. Davis		4 80
" James Magrau		1,000 00
" A. H. Fisher, J. P		24 20
" Charles F. Rappold		15 00
" Fairfield Implement Co		10 00
" dockets		92 50
" transcript		4 68
" S. R. Mason, Register		4 10
" Charles Winternitz		50 00
" telephone		31 25
		$6,825 20

Cr.		
By Thomas Ireland Elliott	$77 85	
" Water Board	93 60	
" appropriation	5,000 00	
	$5,171 45	$6,825 20
By amount expended in excess	1,653 75	.....
Total amount expended	$6,825 20	$6,825 20

TABLE K.

DIARY OF THE CITY COUNCIL, 1898.

To members' salaries	$32,999 98
" salaries First Branch employes	8,199 72
" " Second " "	7,499 64
" T. J. Sheubrooks, City Printer	4,948 78
" S. B. Kurtz, " "	1,553 45
" telephone	136 25
" T. S. Buck, rubber stamps	51 75
" J. Sewell Thomas, secretary Ways and Means Committee.	600 00
" nine reporters of the press	1,350 00
" Joint Legislative Committee expenses	47 05
" Joint Police and Jail Committee expenses	242 70
" J. C. Kane, engrossing set resolutions complimentary to James S. Allison	125 00
" T. J. Sheubrooks, printing copies of the New Charter	1,600 00
" J. W. Bond Co., postage stamps, cards, etc	187 08
" Paul & Falconer, stationery, etc	403 08
" ice	22 86
" laundry, towels, etc	8 00
" carriage hire	24 00
	$59,999 34
Unexpended balance	66
	$60,000 00

TABLE L.

PARK BOARD.

By balance January 1, 1898		$4,243 91
" passenger railway receipts as follows:		
" City Passenger Railway.. $100,890 21		
Less cash advance in 1897.... 15,000 00		
		85,890 21
By Consolidated Railway		142,373 26
" Central Railway		17,901 36
" Baltimore and Northern Railway		2,535 05
" revenue from the parks		2,995 10
" balance from the squares		703 05
To appropriation to squares	$28,397 00	
" expenditures	222,534 13	
" balance January 1, 1899	5,710 81	
	$256,641 94	$256,641 94

BALTIMORE TRACTION COMPANY.

Three Months previous to	1895.	1896.	1897.	*1898.
January	$16,619 52	$18,539 86	$20,438 26	.....
April	14,919 09	16,855 58	18,875 50	.....
July	18,347 33	21,604 82	22,002 96	.....
*October	18,899 86	21,596 60	.....	.....
	$68,785 80	$78,596 86	$61,316 72	.....
Curtis Bay	.....	1,025 39	.....	.....

CITY AND SUBURBAN RAILWAY COMPANY.

Three Months previous to	1895.	1896.	1897.	*1898.
January	$10,366 43	$11,458 75	$14,021 65	.....
April	10,022 00	12,317 49	12,480 61	.....
July	13,739 22	15,166 27	15,039 63	.....
*October	16,439 33	16,080 32	.....	.....
	$50,566 98	$58,022 83	$41,541 89	.....

*BALTIMORE CONSOLIDATED RAILWAY COMPANY.

Three Months previous to	1897.	1898.
January	.....	$35,794 18
April	.....	31,264 63
July	.....	36,951 09
*October	$37,585 90	38,363 36
	$37,585 90	$142,373 26

BALTIMORE CITY PASSENGER RAILWAY COMPANY.

Three Months previous to	1895.	1896.	1897.	1898.
January	$24,536 80	$24,415 01	$22,561 72	$26,118 47
April	20,558 93	21,566 24	20,659 30	23,542 73
July	25,270 69	25,315 22	23,608 96	25,874 21
October	25,383 21	20,975 83	24,899 85	25,354 80
	$95,749 63	$92,272 30	$91,729 83	$100,890 21

CENTRAL RAILWAY COMPANY.

Three Months previous to	1895.	1896.	1897.	1898.
January	$4,051 25	$3,686 14	$3,383 46	$4,275 79
April	3,496 59	3,239 99	3,604 52	3,867 53
July	3,708 57	3,630 37	4,388 59	4,695 22
October	3,724 28	3,423 01	4,489 56	5,062 82
	$14,980 69	$13,979 51	$15,866 13	$17,901 36

BALTIMORE AND NORTHERN ELECTRIC RAILWAY COMPANY.

Three Months previous to	1898.
January	$424 42
April	443 88
July	785 71
October	881 04
	$2,535 05

TABLE M.

ASHLAND SQUARE.

	1898.	1897.
Keepers' salary	$49 92	$49 92
Rope	.....	66
Flowers	40 00	34 94
Hose	.....	7 25
Painting	23 25	.....
	$113 17	$92 77
Unexpended balances	8 83	7 23
Appropriation	$122 00	$100 00

Commissioners: Dr. J. B. Sutherland, Frank A. Pershon, C. Pretzfelder.

BROADWAY SQUARES—FIRST DIVISION.

	1898.	1897.
Keepers' salary	$660 00	$660 00
Labor	588 75	576 75
Flowers and plants	375 88	454 45
Tools and repairs	117 47	111 30
Cement work	35 00	70 00
Soil and manure	15 00	62 60
	$1,792 10	$1,935 10
Unexpended balances	57 90	64 90
Appropriations	$1,850 00	$2,000 00

Commissioners: E. A. Bettsworth, Conrad Diering, George Meads.

BROADWAY SQUARES—SECOND DIVISION.

	1898.	1897.
Keeper's salary	$660 00	$660 00
Labor	413 30	385 85
Flowers and plants	354 01	289 20
Painting	83 00	46 50
Tools and repairs	52 88	41 98
Manure	57 50	55 00
Cement work	42 50	15 80
Ice	.....	4 90
Tools, house rent	7 00	.....
Sods and soil	14 32	.....
	$1,684 51	$1,499 23
Unexpended balances	15 49	77
Appropriation	$1,700 00	$1,500 00

Commissioners: Harry Wyatt, Thos. Cook, Henry G. Faupel.

BROADWAY SQUARES—THIRD DIVISION.

	1898.	1897.
Keeper's salary	$626 00	$598 00
Labor	600 00	777 95
Flowers	472 15	234 23
Cement work	20 00	163 00
Storage on tools	30 00	27 50
Manure and soil	35 75	20 50
Tools and repairs	75 90	75 50
Painting	40 00	.....
	$1,899 80	$1,896 68
Unexpended balances	20	3 32
Appropriation	$1,900 00	$1,900 00

Commissioners { H. F. Parker, C. Ludloff, Clifton Wells.

EASTERN FOUNTAIN.

	1898.	1897.
Keeper's salary	$600 00	$600 00
Painting	120 00	65 60
Flowers, plants	225 99	308 30
Repairs to fountain	20 00	2 50
Tools, repairs and supplies	39 07	15 36
Fuel	.....	8 15
	$1,005 06	$999 91
Unexpended balances	44 94	09
Appropriation	$1,050 00	$1,000 00

Commissioners { John Gressen, Charles L. Stockett, Richard Gardner.

EUTAW SQUARES—FIRST DIVISION.

	1898.	1897.
Keeper's salary	$600 00	$600 00
Labor	29 00	15 00
Flowers	831 84	680 59
Rent, tools, etc	78 64	75 00
Sods and brush	.....	7 00
Repairs to fountain	1 50	3 45
Fertilizer	42 00	64 75
Manure	76 50	.....
Painting	40 00	.....
	$1,699 48	$1,445 79
Unexpended balances	52	154 21
Appropriation	$1,700 00	$1,600 00

Commissioners { Oliver L. Rhodes, A. L. Strauss, C. Warner Stork.

EUTAW SQUARES—SECOND DIVISION.

	1898.	1897.
Keeper's salary	$600 00	$600 00
Labor	50 75	47 75
Flowers and seed	814 98	601 14
Tools and repairs	75 00	15 85
Storage tools, etc	60 00	60 00
Painting	70 00	160 00
Fish pond	.....	12 00
Plumbing, hose, etc.	10 90	107 25
Manure	.....	55 00
Fertilizer	30 00	.....
Manure	31 25	.....
	$1,742 88	$1,658 99
Unexpended balances	57 12	141 01
Appropriation	$1,800 00	$1,800 00

Commissioners { G. W. Wood, Sam'l Strauss, Chas. J. Taylor.

FULTON AVENUE SQUARES.

	1898.	1897.
Keeper's salary	$600 00	$725 00
Labor	386 50	398 00
Flowers	866 47	700 80
Fertilizer and sods	.....	73 10
Rent of tool house	60 00	20 00
Painting	.....	5 59
Hose	28 60	15 30
Tools and repairs	27 05	48 68
Hire horse and cart	.....	10 50
Dirt, manure, etc	28 30	.....
Flower pots	2 65	.....
	$1,999 57	$1,996 97
Unexpended balances	43	3 03
Appropriation	$2,000 00	$2,000 00

Commissioners { Benj. H. Bealer, Albert Metzger, Wm. Norris.

FRANKLIN SQUARE.

	1898.	1897.
Keeper's salary	$575 00	$625 00
Plants and seeds	214 50	259 90
Sods, etc	16 00	78 25
Cement work	68 50	42 75
Labor	130 00	53 75
Tools and repairs	38 95	17 61
Painting urns and benches, etc	96 00	100 00
Coal	2 95	.....
Manure and fertilizer	50 00	.....
Signs, notices, etc	7 50	.....
	$1,199 40	$1,177 26
Unexpended balance	60	22 74
Appropriation	$1,200 00	$1,200 00

Commissioners { George W. Beard, W. F. Lehnert, J. W. M. Tibbals.

HARLEM PARK.

	1898.	1897.
Keeper's salary	$956 21	$1,050 00
Labor	1,067 40	1,018 50
Bone dust	.....	25 00
Flowers and flower pots	144 00	.....
Sods and seed	16 90	71 25
Dirt, sand and hauling	38 40	112 50
Hose	.....	30 60
Tools and repairs	134 12	52 25
Insurance	5 10	.....
Coal	61 90	60 00
Painting	57 44	.....
Lumber	.....	30 49
Manure	10 00	36 00
Ice	5 10	9 50
	$2,496 57	$2,496 09
Unexpended balance	3 43	3 91
Appropriation	$2,500 00	$2,500 00

Commissioners { Charles Dinkerman, J. Marine Woolf, Richard McCurdy.

JACKSON SQUARES.

	1898.	1897.
Keeper's salary	$600 00	$600 00
Flowers	208 37	256 73
Painting	.....	50 00
Repairs to fountain	15 95	13 00
Tools	9 55	16 20
Repair work	35 83	2 75
Manure and lime	18 50	.....
Seed	2 00	.....
	$890 20	$938 68
Unexpended balance	9 80	61 32
Appropriation	$900 00	$1,000 00

Commissioners { W. A. Johnson, Howard D. Adams, Geo. W. Corner, Jr.

LAFAYETTE SQUARE.

	1898.	1897.
Keeper's salary	$720 00	$720 00
Labor	32 45	180 45
Tools and repairs	63 01	57 70
Fertilizer	20 40	27 00
Painting	60 00	105 00
Fountain and repairs	25 28	87 75
Coal	.....	8 75
Seed and sods	5 00	11 60
Hose	.....	3 00
Paints and flowers	330 00	295 00
	$1,256 14	$1,496 25
Unexpended balance	243 86	3 75
Appropriation	$1,500 00	$1,500 00

Commissioners { J. H. Winkelman, Thos. S. Ball, Dr. J. W. Lord.

MADISON SQUARE.

	1898.	1897.
Keeper's salary	$600 00	$600 00
Labor	520 33	370 50
Sods	56 55	42 00
Flowers	208 10	202 50
Seed	4 50	8 95
Manure and fertilizer	20 50	11 00
Coal	3 00	3 15
Repairing kerbing and walks	15 00	15 00
Repairs, painting and tools	204 99	15 76
	$1,663 27	$1,268 86
Unexpended balance	11 73	131 14
Appropriation	$1,675 00	$1,400 00

Commissioners: Wiliam A. Leitch, John Peed, Lewis N. Wilcox.

MT. ROYAL AVENUE SQUARES.

	1898.	1897.
Keeper's salary	$480 00	$520 00
Labor	198 00	246 75
Rent for tool house	90 00	90 00
Flowers	9 00	18 00
Trees	.....	35 75
Tools and repairs	28 30	26 95
Repairs to walks	42 00	.....
	$847 30	$937 15
Unexpended balance	152 70	62 55
Appropriation	$1,000 00	$1,000 00

Commissioners: Michael Jenkins, H. P. Duker, Percy M. Reese.

MT. VERNON SQUARES.

	1898.	1897.
Keeper's salaries	$750 00	$700 00
Labor	657 00	522 75
Plants, etc	75 39	203 95
Grass seed, etc	16 00	11 25
Hose	.....	15 00
Tools and repairs	2 05	54 33
Expenditures	$1,500 44	$1,507 28
Less cash advanced by Commissioners	44	7 28
Appropriation	$1,500 00	$1,500 00

Commissioners: Thos. M. Lanahan, Thos. Deford, O. F. Bresee.

PARK PLACE SQUARES.

	1898.	1897.
Keeper's salary	$300 00	$300 00
Labor	7 50	36 00
Flowers	305 80	355 14
Hose and coupling	.....	15 60
Manure	.....	9 00
Repairing sidewalk	.....	5 00
Tools and repairs	16 50	9 33
Repairing fountain	51 88	.....
Manure	11 25	.....
Painting urns	23 25	.....
	$716 18	$730 07
Unexpended balance	83 82	19 93
Appropriation	$800 00	$750 00

Commissioners { J. W. Sanders, Jno. K. Shaw, Jr., D. C. Ammidon.

PERKINS SPRING SQUARE.

	1898.	1897.
Keeper's salary	$660 00	$750 00
Labor	191 25	106 50
Vase	.....	50 00
Plants	62 95	18 90
Coal and wood	69 50	76 00
Soil	16 13	16 50
Tools and repair work	82 96	27 78
Painting and whitewashing	.....	16 25
Grass	.....	13 50
Fertilizer	.....	18 10
Flag-poles, etc	27 83	71 50
Water connection	.....	12 00
Crushed stone and cement	.....	3 00
Lumber	.....	19 97
Manure	13 75	.....
Painting	200 00	.....
Flower pots	24 95	.....
	$1,349 32	$1,200 00
Unexpended balance	68	.....
Appropriation	$1,350 00	$1,200 00

Commissioners { G. Henry Frey, Wm. B. Saumenig, J. F. Bassler.

TANEY PLACE SQUARE.

	1898.	1897.
Keeper's salary	$300 00	$300 00
Flowers	169 56	163 26
Paving walks	.....	60 86
Plumbing work	17 09	16 15
Manure	7 00	7 00
Trees	2 00	75
Painting	32 00	.....
Hose	15 50	.....
	$543 15	$548 31
Unexpended balance	6 85	1 69
	$550 00	$550 00

Commissioners { Wm. P. Rose, A. B. Clark, J. Newport Potts.

UNION SQUARE.

	1898.	1897.
Keeper's salary	$600 00	$600 00
Labor	54 05	46 75
Repairing gutter and pavement	.....	32 44
Trees and shrubbery	.....	60 00
Pruning and trimming	17 50	58 75
Plants and flowers	252 01	30 00
Cutting wood	.....	23 75
Coal and wood	6 00	8 30
Iron vases	.....	20 00
Painting urns, etc	127 25	18 50
Hose	.....	15 00
Tools and repairs	154 59	22 38
Repairs to fountain	.....	2 00
Walk guards	21 60	.....
Flower pots	3 00	.....
Stove and fixtures	5 75	.....
Manure	8 75	.....
Sods, etc	26 50	.....
Repairing spring house	23 00	.....
	$1,300 00	$937 87
Unexpended balance	.....	62 13
Appropriation	$1,300 00	$1,000 00

Commissioners { John J. Tatum, W. D. Orr, Jonathan French.

WILKENS AVENUE SQUARES.

	1898.	1897.
Keeper's salary	$600 00	$650 00
Labor	652 05	538 16
Flowers	288 32	489 55
Seed	33 50	52 95
Painting	100 75	92 70
Plumbing	.....	21 10
Tools and repairs	43 12	36 03
Hose	11 30	11 25
Paving	.....	28 50
Hauling	67 91	28 50
Rent of tool house	6 00	24 00
Manure	.....	9 00
Glass	.....	6 00
Fertilizer	.....	7 50
Sods and printing	3 50	2 50
Grading, resetting kerb, etc	154 50	.....
Castings	9 90	.....
Rent of green house	25 00	.....
	$1,995 85	$1,997 74
Unexpended balance	4 15	2 26
Appropriation	$2,000 00	$2,000 00

Commissioners { G. W. Harrington, C. R. Hill, E. Steinmuller.

COMPARATIVE STATEMENT OF EXPENDITURES ON PUBLIC SQUARES.

	1898.	1897.
Ashland Square	$113 17	$92 77
Broadway Square, first division	1,792 10	1,935 10
" " second "	1,684 51	1,499 23
" " third "	1,899 80	1,896 68
Eutaw " first "	1,699 48	1,445 79
" " second "	1,742 88	1,658 99
Eastern Fountain	1,005 06	999 91
Fulton Avenue Squares	1,999 57	1,996 97
Franklin Squares	1,199 40	1,177 26
Harlem Park	2,496 57	2,496 09
Jackson Square	890 20	938 68
Lafayette "	1,256 14	1,496 25
Madison "	1,663 27	1,268 86
Mt. Royal Avenue Squares	847 30	937 45
Mt. Vernon "	1,500 00	1,500 00
Park Place "	716 18	730 07
Perkins Spring "	1,349 32	1,200 00
Taney Place "	543 15	548 31
Union "	1,300 00	937 87
Wilkens Avenue "	1,995 85	1,997 74
	$27,693 95	$26,754 02

ANNUAL REPORT

— OF THE —

GENERAL SUPERINTENDENT OF LAMPS AND INSPECTOR AND SEALER OF GAS METERS,

— TO THE —

Mayor and City Council of Baltimore,

— FOR THE —

FISCAL YEAR ENDING DECEMBER 31st, 1898.

REPORT.

OFFICE OF THE GENERAL SUPERINTENDENT OF LAMPS AND INSPECTOR AND SEALER OF GAS METERS—
CITY HALL ANNEX.

BALTIMORE, December 31, 1898.

To the Honorable the Mayor and City Council of Baltimore:

GENTLEMEN:

I have the pleasure of presenting the Nineteenth Annual Report of this department, showing the appropriations, receipts and disbursements, and the general operation of affairs relating to the lighting of the city for the year ending December 31, 1898.

There are now in use in the city proper:

Electric arc lamps	1,317
Gas lamps	5,291
Gasoline lamps	334

There are now in use in the city Annex:

Electric arc lamps	52
Gas lamps	944
Gasoline lamps	738

making a total of eight thousand six hundred and seventy-six lamps used in lighting about eight hundred (800) miles of streets and highways.

ELECTRIC LAMPS.

The electric lamps are supplied by contract with the Brush Electric and Edison Electric Illuminating Companies; the contracts were made for five (5) years at thirty-five (35) cents per lamp per night; the contractors furnish all the plant and attend to all the work connected therewith. These contracts expire September 7, 1899. The electric light service continues to give general satisfaction; the contractors have shown a willingness to

live up to the specifications, and any requests of them whereby the service could be improved has been promptly made.

A copy of the specifications which are a part of the electric light contracts:

SPECIFICATIONS.

1. Bids must be submitted in sealed envelopes addressed to "The Electric Lighting Commission," in care of the Secretary, to the Mayor, and endorsed "Proposals for electric lights."

2. The city will be divided into three districts, called the western, the eastern and the northwestern.

3. Separate bids must be made for each district, and contract may be awarded for one or more districts.

4. All bids must be for lights now in service in a district, and any others that may be ordered erected in that district.

5. A current strength sufficient to develop and maintain the full and normal candle power of a nominal 2,000 candle power lamp at each and every lamp in circuit must be maintained during the hours fixed for the lamps to be burning.

6. The contractors must maintain at their own expense an efficient system of patrol for inspecting the lamps during the hours they are in use so that any lamp which fails to burn properly shall be promptly reported and put in order or immediately replaced, and for this inspection a sufficient number of men shall be employed to enable each lamp to be examined at least three times during each night.

7. For the purpose of making tests of currents and examining lamps, apparatus and appliances, it is understood and agreed that at any time the city, by such person or persons as the General Superintendent of Lamps may authorize, shall have access to all lamps, apparatus and appliances in the city, and to the plants of the contractors, and shall have the privilege at any and all times of attaching in any of the circuits at such point or points as may be selected by the General Superintendent of Lamps such measuring instruments as he may desire to use and to maintain the same so long as he may judge it advisable, and any lamp or light not up to the standard, as required by the specifications, will be considered as not burning.

8. Lamps must be provided with the best quality of clear glass globes, which are to be kept clean at all times, at the expense of the contractors.

9. Lamps not satisfactory to the General Superintendent of Lamps shall be changed and satisfactory ones substituted within twelve hours after notice that change was desirable.

10. The General Superintendent of Lamps must be advised within five days from the date that the lighting commences under the contract of the K. W. capacity of the several dynamos in use and of the number and locations of the lamps on each circuit, and of all changes as soon as they are made.

11. No dynamos shall have in circuit more than two lamps per K. W., and no service whatever, unless approved by the General Superintendent of Lamps, other than that contracted for by the city, shall be supplied from the circuits giving current to the city lamps.

12. The contractor must furnish, erect and maintain all poles, wiring lamps, connections and fixtures, including arms or brackets, if such are desired.

13. Lamps must burn from sunset to half an hour before sunrise on every day of the year while the contract is in force.

14. Changes of locations of lamps or poles must be made by the contractor immediately upon notice from the General Superintendent of Lamps, and the actual cost only of such change charged to the city.

15. Lamps may be discontinued at any time on order from the General Superintendent of Lamps, with the approval of the Mayor.

16. Any contractor under these specifications shall within ninety days after the annulment of this contract remove any and all lamps, lamp-posts and fixtures used, erected and maintained by him for the city lighting if so required by the Mayor.

17. Each bidder must enclose with his bid certified checks for five hundred dollars ($500) for each district bid for. None of the checks received will be returned until the successful bidder or bidders have given a satisfactory bond for the proper carrying out of the contracts, and then all checks will be forfeited to the city by any bidders to whom a contract is offered for one or more districts and

who fails to give a satisfactory bond. All checks not forfeited as above will be returned to the bidders when contracts are finally awarded.

18. The contractors shall each day before 3 P.M. make a written report to the General Superintendent of Lamps stating whether any lamps were out on the preceding night, the number of lamps that were out, if any, the length of time each lamp was out and the cause thereof, and if the said lamps or any of them were out by reason of the failure of current to supply said lamps the said report shall further contain the cause of such failure.

19. No change of current from one city circuit to another city circuit will be permitted during the hours the lights should be burning.

20. Poles for street lamps and circuits and the means of suspension must not be dangerous, unsightly, or such as to incommode the adjoining property unnecessarily, but be erected in a manner satisfactory to the General Superintendent of Lamps; his approval, however, shall not relieve the contractor of responsibility in case of accident or injury to persons or property.

21. All safety appliances known in the best electrical practice shall be used throughout the system authorized directly or indirectly by this contract.

22. All generators, lines, lamps and other apparatus used for lighting shall be kept free from grounds; *i. e.*, both sides of all circuits must be kept well insulated from the earth.

23. Bond for twenty thousand dollars ($20,000) for the faithful performance of the contract will be required.

24. Nothing in these specifications shall be taken or construed as prohibiting or preventing the Mayor and City Council, the Public Park Commissioners, or any other public board or commission appointed by the Mayor and confirmed by the Council, from establishing, using and maintaining their own dynamos and other plant for the lighting of any public park or building under the control or supervision of the said Mayor and City Council, Board of Public Park Commissioners, or other public board or commission.

25. In case of any suit against the city for damages caused by the electric current, or want of it, at points where the lamps should be burning, or where wires are placed for the purpose of supplying said lamps, the contractors agree to defend all such suits at their expense and pay all damages for which the city may become liable by reason of such suits.

26. The contract under the ordinance will be for five years.

27. Failure on the part of the contractor to comply with any conditions of these specifications gives the city the right to annul the contract, upon giving sixty days' notice in writing by the Mayor of its election to do so.

28. Any lamp out for half an hour and burning for the rest of the night half pay only to be charged. If out an hour no pay.

The Western District shall comprise all territory bounded by old city limits on the north, by the old city limits on the west, by the old city limits on the south, and on the east as follows: Hanover street from the water to Baltimore street, Baltimore street to McClellan's alley, McClellan's alley to Fayette street, Fayette street to Crooked lane, Crooked lane to Lexington street, Lexington street to Sharp street, Little Sharp street to Saratoga street, Saratoga street to Cathedral street, Cathedral street to Biddle street, Biddle street to Maryland avenue, Maryland avenue to North avenue. Where streets are named both sides are included.

The Eastern District is to comprise all territory bounded on the north by city limits, on the south by city limits, on the east by city limits, and on the west by the eastern line of the Western District as named above, and further by a line projected north from North avenue to the city limtts at Maryland avenue.

The Northwestern District covers the territory west of the old city limits as named in the ordinance directing the lighting with arc lamps Calverton, Walbrook and West Arlington avenues.

Parks and city buildings which are now contracting for their own lights are not considered as forming a part of the above districts.

As the officers of this department have access at all times to the power stations of the contractors I have visited the same at irregular intervals, viewed the meters connected with the machines and noted the amperage of the current as distributed to the various circuits supplying the city lamps, and they have always been found registering sufficiently to produce the light of nominal 2,000 candle power as required by the contracts.

The Police Department has assisted me very materially by reporting any lamps that were temporarily out, for which I herewith express many thanks.

GAS LAMPS.

There is no contract with the gas company. I find that the city has been compelled to pay the same price for gas as the private consumer since 1885. The present price is one dollar and twenty-five cents ($1.25) per thousand cubic feet. Owing to the city being such a large consumer and that the *expense* of distribution so small it seems that the price should be somewhat reduced.

I would suggest that if a contract is made with the gas company that the price be per lamp, burning upon schedule to be arranged by the General Superintendent of Lamps, instead of using a few gas meters scattered throughout the city as at present, as it is well known the mechanism of the gas meter is affected by the changes of temperature, thus causing a variation in the registered consumption from the actual consumption, necessitating a settlement by equity instead of a fixed charge. Also that authority be given the General Superintendent of Lamps, etc., to order the gas company to lay mains, as there are times when it is desirable to erect gas lamps, but there is no authority to order mains laid.

The gas lamps supplied with the "Improved Welsbach" fixtures have given entire satisfaction; the contract for the same expires March 1, 1900. As the improvement in the *light* by the Welsbach burners is greatly increased over that from the lava tip burners I think it would be well to increase this character of service, providing the contract can be made at a lower figure; the price paid at

present is twelve dollars ($12) per lamp per annum; the Welsbach Company supplies all the fixtures connected with the burners and renew the same as often as needed as well as replace all broken globes, while the total cost of the maintenance of the lamps supplied with the Welsbach fixtures does not exceed that with the lava tips there is an increase in the illumination from 25 to 60 candle power.

GASOLINE LAMPS.

The contracts for supplying gasoline and filling the fluid burning lamps will expire June 30, 1899.

The contract for the City Proper was made with the Peuss Oil Works at a price of nine dollars and seventy three cents ($9.73) per lamp per annum, and for the City Annex, with Samuel H. Randall, Jr. & Co., for the sum of eight dollars and seventy-six cents ($8.76) per lamp per annum.

Specifications which are a part of the gasoline contract:

SPECIFICATIONS.

Each bidder must enclose with his bid a certified check for five hundred dollars ($500), and the bidder who has had the contract awarded to him, and who fails to promptly execute the required contract and bond, shall forfeit said check.

The checks of the unsuccessful bidders shall be returned to them after opening the bids and awarding the contract to the successful bidder.

The gasoline must be of the gravity of 72° to 75° and free from water, gum, glue or other impurities, and placed in the lamps through a sieve or strainer in the filler.

The lamps must be filled every other day throughout the year, and oftener when required, it being understood that all lamps in the city must be filled on Saturdays.

Any lamp that won't burn, or that goes out, or burns dim for any part of a night for want of gasoline, or because of any impurities in said gasoline, or if not filled according to the preceding section, will subject the contractor to a fine of twenty-five (25) cents

per lamp per night for each lamp requiring attention as above, which fine will be deducted from the amount that would be otherwise due, and the report of the condition of a lamp by the superintendent of the district in which the lamp is located shall be accepted as final.

To facilitate the work of the contractor a report will be given if desired, each morning (Sundays and holidays excepted), at the office of the General Superintendent of Lamps in the City Hall Annex, of all lamps then known to require attention.

The number of lamps may be increased or diminished at the pleasure of the city.

Gasoline lamps are only in service where there are no gas mains. As soon as mains are laid gas lamps are then erected in their places. There is more or less trouble in windy weather to keep gasoline lamps burning, consequently the change is made to gas as soon as possible, thereby improving the service.

DAMAGES TO LAMPS.

During the past year the department has had much less trouble with boys breaking the lamps and street signs than heretofore. As soon as any trouble is encountered by the department the police authorities, upon request, immediately apprehend the offenders by officers in citizen's dress.

STREET SIGNS.

As directed by Article 48, Section 97, Code of 1893, which requires the General Superintendent of Lamps, etc., to place the names of the streets in position, I have endeavored to comply with the same, but it is impossible to properly determine what are the right names in very many instances, as no official record has been kept and no department been charged with this very important work. Very many names are duplicated, and quite a large number of streets have from two to six names. For instance, Regester street from Lancaster street to Baltimore street; Irving Place from Baltimore street to Fairmount avenue; Jackson Place from Fair-

mount avenue to Fayette street; Regester street from Orleans street to Jefferson street; McDonogh street from Milliman street to Biddle street; Regester street from Preston street to North avenue. Now it can be readily seen that this street has the name of Regester in three different portions, while it also has three other names in other portions. While there are many streets which have different names, there are also many streets of the same name, and as it is practically impossible to determine the proper names in many instances, I would recommend that the Mayor and City Council pass an ordinance renaming all the streets upon some system, and that no street thereafter opened by any one whomsoever, be given a name without the official approval of some officer of the city legally assigned for the purpose. Under no circumstances can a street which is along the line of another be given any other name than that name which the street has that it is a continuation of. I believe that the "Chief Engineer of the Topographical Survey" could attend to this very important matter, and that it would afford his department a great assistance with the work now under their control.

CONDITION OF LAMPS.

The gas and gasoline lamps in the Annex have been overhauled and painted, and I found that many of the gas lamps were unfit for longer use, and I had the globe lamps put in their places.

It will be necessary to paint the gas and gasoline lamps and posts throughout the city proper during the coming year to protect them from rust and decay.

DISCONTINUED POSTS.

The unused gas lamp-posts are being gradually removed from the positions where the electric lamps are in service and erected where new streets are opened and built upon instead of purchasing new ones.

SUPERINTENDENTS AND LAMPLIGHTERS.

There are six (6) superintendents and one hundred and forty-nine (149) lamplighters.

The duties of the superintendents require them to keep a general supervision of the work of the lamplighters, to see that the lamps in their respective districts are lighted and extinguished on schedule time, that the lighters report their lamps promptly for necessary repairs, and that the lamps are kept clean at all times.

Owing to various persons tampering with the lamps I determined upon and adopted a badge to be worn conspicuous by the employees of this department at all times when on duty, and requested the Police Department to recognize them as authority under the law to attend to the lamps; all parties tampering with the lamps not wearing the badge adopted by the department will be subject to arrest. Consequently I expect very little trouble hereafter in this respect.

RULES GOVERNING THE LAMPLIGHTERS.

1. A card will be furnished by the first of each month giving the time to commence lighting and extinguishing the lamps, and if a lamplighter for any cause is unable personally to light or extinguish his lamps at the hours named on the card he must immediately report the fact to his Superintendent, as it is unlawful for any person other than those legally authorized to light or extinguish any of the public lamps of the City of Baltimore.

2. Lamplighters are required to wear their badges when on duty on the outside of their coats so they will be readily seen. These badges are recognized by the Police Department as authority to light and extinguish as well as to attend to the lamps. Any one not complying with this rule is subject to arrest.

3. Lamplighters are required to report any defects in the burning or when any of the lamps or streets signs on the lamps are out of order before eight o'clock every morning, Sundays excepted.

4. Lamplighters are required to keep burners and burner plates clean, the needle in working order, and the gas passage pricked out with the regulating screw, so that the flame may burn with the proper size, and no split flame will be allowed.

5. The lanterns must be kept clean at all times, and must not be turned around on the posts after they are properly placed and secured.

6. Gasoline lamps must not be left by the lamplighter until the burner is thoroughly heated and the lamp burning properly.

7. Lamplighters must appear in person to receive their pay and sign the pay-roll.

Failure to observe the above rules will be considered sufficient cause for suspension.

GAS METERS.

During the year the department has inspected twelve thousand nine hundred and three (12,903) gas meters.

The consumer of gas, it appears, does not know that upon payment in advance to the inspector the specified fee of $1 the inspector will send to the premises, remove the meter to the office, inspect the same, and if it is found registering more than 2 per cent. against the consumer his $1 is refunded, and the gas company will refund to him accordingly the amount of overcharge on the last four (4) months preceding the test, at the same time the gas company is required to pay the city the amount of $1 (refunded to the consumer) for the work of removing said meter from the premises, testing, etc.

COST OF LIGHTING THE CITY.

The cost of lighting the city proper for the year 1898 was as follows:

Office salaries	$3,000 00
Gas lamps	120,833 60
Electric lights	167,300 05
Gasoline lamps	4,546 98
Superintendents and lamplighters' salaries	48,178 00
	$343,858 63

The cost of lighting the City Annex for the year 1898 was as follows:

Gas lamps	$22,954 42
Electric lights	66,555 50
Gasoline lamps	8,450 22
Superintendents and lamplighters' salaries	17,731 42
	$55,691 56
Total appropriations	$415,482 00
Total expenditures	399,550 19
Balance	$15,931 81

I desire to express my appreciation to the employees of this department for the cheerful manner in which they have performed their duties.

Respectfully submitted.

WM. H. SWINDELL,
General Superintendent of Lamps, Etc.

TABLES.

TABLE A.

Exhibits the number and sizes of meters inspected; also, those rejected as incorrect.

SIZE AND NUMBER OF METERS INSPECTED AND SEALED.

Size of meters...	2-lt.,	3-lt.,	5-lt.,	10-lt.,	20-lt.,	30-lt.
No. of meters....	32.	452.	11,515.	398.	177.	48.
Size of meters...	45-lt.,	60-lt.,	80-lt.,	100-lt.,	150-lt.,	200-lt., 250-lt.
No. of meters....	51.	28.	1.	20.	1.	1. 1.

SIZE AND NUMBER OF METERS REJECTED AS INCORRECT.

Size of meters...	2-lt.,	3-lt.,	5-lt.,	10-lt.,	20-lt.,	30-lt.
No. of meters....	2.	15.	132.	14.	9.	1.
Size of meters...	45-lt.,	60-lt.,	80-lt.,	100-lt.,	200-lt.	
No. of meters....	2.	1.	1.	1.	1.	

In addition to the above there were 52 lamp, market and engine-house meters taken out, 41 of which were incorrect or otherwise out of order.

TABLE B.

Shows the amount received by the department and paid to the Register on warrants from the Comptroller.

Inspecting gas meters	$3,400 75
Recovered damages to lamps	167 44
Old material sold	51 23
Unclaimed salary	1 72
	$3,621 14

TABLE C—City Proper.

Exhibits the amount of the appropriation and the amount expended, with balance unexpended, for the electric light account.

Appropriation for electric lights	$168,000 00
Amount expended	167,300 05
Balance	$699 95

TABLE D—City Proper.

Exhibits the amount of appropriation and amount expended, with balance unexpended, for the gas account.

Appropriation for gas	$132,000 00
Amount expended	120,833 60
Balance	$11,166 40

TABLE E—City Proper.

Exhibits the amount of appropriation and amount expended, with balance unexpended, for the gasoline account.

Appropriation for gasoline	$5,500 00
Amount expended	4,546 98
Balance	$953 02

TABLE F—Annex.

Exhibits the amount of appropriation and amount expended, with balance unexpended, for the electric light account.

Appropriation for electric lights	$7,000 00
Amount expended	6,555 50
Balance	$444 50

TABLE G—Annex.

Exhibits the amount of appropriation and amount expended, with balance unexpended, for the gasoline account.

Appropriation for gasoline	$9,500 00
Amount expended	8,450 22
Balance	$1,049 78

TABLE H—Annex.

Exhibits the amount of appropriation and amount expended, with balance unexpended, for the gas account.

Appropriation for gas	$24,000 00
Amount expended	22,954 42
Balance	$1,045 58

TABLE I—City Proper.

Exhibits the amount of appropriation for office salaries and amount expended.

Appropriation for office salaries	$3,000 00
Amount expended	3,000 00

TABLE J—City Proper.

Exhibits the amount of appropriation for Superintendents and lamplighters' salaries and amount expended.

Appropriation for Superintendents and lamplighters' salaries	$48,178 00
Amount expended	48,178 00

TABLE K—Annex.

Exhibits the amount of appropriation for Superintendents and lamplighters' salaries and amount expended, with balance unexpended.

Appropriation for Superintendents and lamplighters' salaries	$18,304 00
Amount expended	17,731 42
Balance	$572 58

TABLE L—City Proper.

Shows the amounts required for the year ending December 31, 1899.

The appropriation for electric lights will cover the cost of electric lights on the streets, in squares, markets, on bridges, and in the clock at No. 6 Engine House, and the inspection of the lamps, as well as for apparatus and repairs to same	$174,387 50
The appropriation for gas will cover the cost of gas for street lamps, squares, markets, bridges, Washington Monument, erecting and removing lamps, straightening posts, renewal of services, new globes, new lanterns, lamp-posts, street signs, burners, stops and all necessary repairs for keeping the lamps in good condition and for additions and alterations to gas-pipes or fixtures in public buildings	143,181 10
The appropriation for gasoline will cover the cost of gasoline and filling the fluid-burning lamps, new posts, lanterns, burners, valves, lamp-wick, glass and all necessary repairs for keeping the lamps in good condition	5,620 00
The appropriation for office salaries	3,000 00
The appropriation for Superintendent and lamplighters' salaries	52,010 00

TABLE M—City Annex.

Shows the amount required for the year ending December 31, 1899.

The appropriation for electric lights will cover the cost of electric lights on the streets and highways	$7,920 00
The appropriation for gas will cover the cost of gas for street lamps, erecting and renewal of lamps, renewal of services, straightening posts, new lanterns, globes, burners, lamp-posts, stop-cocks, street signs, and all necessary repairs to keep the lamps in proper condition	27,593 30
The appropriation for gasoline will cover the cost of gasoline and filling of the fluid burning lamps, new posts, lanterns, burners, valves, lamp-wick, glass and all necessary repairs to the fluid burning lamps	9,349 00
The appropriation for Superintendent and lamplighters' salaries	18,824 00

ANNUAL REPORT

—— OF THE ——

SUPERINTENDENT PUBLIC BUILDINGS,

—— TO THE ——

Mayor and City Council of Baltimore,

—— FOR THE ——

FISCAL YEAR ENDING DECEMBER 31st, 1898.

REPORT.

OFFICE OF SUPERINTENDENT OF PUBLIC BUILDINGS,
CITY HALL, January 1, 1899.

To the Honorable the Mayor and City Council:

GENTLEMEN: In compliance with the custom for heads of departments in the city government to make annual reports of the operations of the department over which they preside, I have the honor to submit the second annual report of the Superintendent of Public Buildings.

In my report of one year ago attention was called to the inadequate accommodations of the City Hall for the transaction of the public business, including the necessary comfort of employes. While there have been some improvements made the past year, still there remains much to be done in many of the departments to provide for the naturally increasing demands of this growing city.

THE TAX DEPARTMENT.

The rooms occupied by the Tax Department, with the addition of the room formerly occupied by the School Board, remodeled and refurnished under the supervision of Collector Parlett, now present one of the most complete and conveniently arranged suite of offices to be found anywhere in the country.

THE WATER DEPARTMENT

has also made some needed improvements, including wiring and fixtures for the introduction of electric lighting.

THE MAYOR'S SUITE OF ROOMS

and the *Police Marshal's Department* have received a much needed coat of paint.

The foregoing are practically the only substantial improvements made during the past year, and the demand for more room continues to be made. I, therefore, recommend that the Inspector of Buildings be provided with funds sufficient to enable him to transform the Armory on the third floor, north side, into desirable offices; and, further, an additional story to the building would be a much needed improvement, and would, I believe, prove a financial benefit to the city in the saving of rents now being paid for necessary offices.

In my last report your attention was called to the necessity for a new *Elevator*. Inspector of Buildings Dowell has in hand at this time the erection of a suitable modern elevator, which will be completed at an early day.

The Illuminated Clock in the dome of the City Hall, with striking attachment of modern machinery, will, in compliance with an ordinance of the City Council, approved by His Honor the Mayor, receive early attention.

GAS AND ELECTRIC LIGHTING.

I wish to emphasize the reference made in last year's report that the city is paying too much for both gas and electric lighting. There is no justice in the city paying one dollar and twenty-five cents per thousand cubic feet for gas. If, therefore, business nor reason can prevail to secure a reduction, the Legislature of the State should see to it that justice be done. I am pleased to report that the electric companies have made substantial reductions in their service for the year 1899.

I wish to renew the recommendation in last year's report to make provision for the thorough cleaning of the outer walls of the City Hall.

In conclusion, your Superintendent of Public Buildings is pleased to report that all the departments have received the very best service that it was possible to render, keeping in view the interest of the city's finances.

Respectfully submitted.

THEODORE F. LANG,
Superintendent Public Buildings.

THIRTY-NINTH ANNUAL REPORT

— OF THE —

COMMISSIONERS FOR OPENING STREETS,

— TO THE —

Mayor and City Council of Baltimore,

— FOR THE —

FISCAL YEAR ENDING DECEMBER 31st, 1898.

REPORT.

OFFICE OF THE COMMISSIONERS FOR OPENING STREETS.

BALTIMORE, January 1, 1899.

To the Honorable the Mayor and City Council of Baltimore:

GENTLEMEN:

We have the honor to submit to you a statement of the operations of this department from January 1, 1898, to December 31, 1898, inclusive.

The following list comprises the streets, alleys, etc., condemned, opened and closed during the above stated time; also the amount of damages, expenses and benefits, and amount assessed to the Mayor and City Council for each and every street, etc.:

STREETS OPENED AND CLOSED.

Names of Streets, Etc.	No. Ord.	Approved.	Damages.	Expenses.	Benefits.	Amount on City.
Opened.						
South Paca street, from West street to Stockholm street....	23	April 6, 1887.	$300 66	$430 89	$583 14	$148 41
West street, from Paca street to Burgundy alley.....	94	May 11, 1892.	.....	258 96	202 01	56 95
Northwest street, from Fulton avenue to Payson street.....	65	July 22, 1897.	15,777 13	573 65	9,723 19	6,627 59
Hoffman street, from Bond street to Broadway.	66	July 22, 1897.	2,833 33	432 88	1,344 96	1,921 25
Marshall street, from Beverlin street to West street	62	July 14, 1897.	8,412 09	479 16	4,258 50	4,632 75
Curley street, from Baltimore street to Fairmount avenue...	102	June 30, 1898.	4,454 14	387 66	2,617 50	2,224 30
Baxter street, from Baltimore street to Fayette street.....	103	June 30, 1898.	9,757 27	462 77	5,632 25	4,587 79
Closed.						
Kirby's (or Dorsey's) lane, excepting 12 feet in the centre thereof, from Lanvale street to Winchester street.....	104 116	July 3, 1886. Sept. 17, 1886.	....	..... 657 18	..... 657 18	....
Totals.....			$41,534 62	$3,683 15	$25,018 73	$20,199 04

STREETS, ALLEYS, Etc., IN PROCESS OF OPENING.

Names of Streets.	No. Ord.	Approved.
Morton alley, from John street to Hoffman street.	96	May 25, 1882.
Henry street, from Clement street to Fifth lane..	77	May 14, 1885.
Elizabeth lane, from Randall street to Heath street	54	May 2, 1888.
Dallas street, from Oliver street to Hoffman street	115	Oct. 16, 1888.
Rope Walk lane, from Randall street to Heath street	36	April 26, 1889.
Towson street, from Fort avenue to Marriott street	70	May 23, 1889.
Florence street, from Fulton avenue to Retreat street	99	June 8, 1889.
Francis street, from Retreat street to Whitelock street	101	June 8, 1889.
Morris alley, from North avenue to Druid Hill Park	103	June 8, 1889.
Stoddard alley, from Mosher street to MeMechen street	148	Oct. 9, 1889.
Nicholson street, from Decatur street to Cooksie street	161	Oct. 28, 1889.
Ridgely street, from Ostend street to Gwynn's Falls	77	May 8, 1891
An alley ten (10) feet wide, from Second street to First street, between Calvert street and Hargrove alley	111	June 4, 1891.
An alley fifteen (15) feet wide, from Gold street to Bloom street	23	Mar. 6, 1893.
Neighbor street, from McKim street to Greenmount avenue	106	May 28, 1894.
Windsor avenue, from North avenue to Clifton avenue	26	Mar. 20, 1894.
Canton avenue, from Cannon street to Luzerne street	67	May 15, 1895.
Maryland avenue, from Huntingdon avenue to Homewood avenue	167	Nov. 2, 1896.
St. Paul street, to widen at its intersection with Hamilton street	68	Sept. 7, 1897.
Jefferson street, from Patapsco street to the burial ground of Methodist Episcopal Church, East Baltimore Station	71	Sept. 20, 1897.
Ducatel street, from Linden avenue to Eutaw Place	83	June 4, 1898.
Payson street, from Baltimore street to Hollins street	94	June 13, 1898.
Whitelock street, from Linden avenue to Mount Royal avenue	105	July 20, 1898.
Wolfe street, from North avenue to Clifton Park.	112	Nov. 11, 1898.

STREETS, ALLEYS, Etc., IN PROCESS OF OPENING—Cont'd.

Names of Streets.	No. Ord.	Approved.
An alley ten (10) feet wide, from Orleans street to Jefferson street, between Central avenue and Eden street	29	April 5, 1898.
An alley nine (9) feet nine (9) inches wide, from Monument street to an alley ten (10) feet wide, between Eden street and Spring street	29	April 5, 1898.
An alley ten (10) feet wide, from the south side of Madison street to an alley ten (10) feet wide, between Caroline street and Spring street	29	April 5, 1898.
An alley ten (10) feet wide, from the north side of Madison street to the south side of Chew street, between Caroline street and Dallas street	29	April 5, 1898.

STREETS, ALLEYS, Etc., IN PROCESS OF CLOSING.

Point lane, from Ensor street to North avenue	84	May 23, 1882.
V alley, from Barre street to Welcome alley	91	Oct. 8, 1885.
Butchers' lane, from Calhoun street to North avenue	61	May 2, 1888.
Fourth lane, from Hanover street to Light street	22	Mar. 29, 1889.
Brown's lane, from Eden street to Caroline street	111	June 10, 1889.
Truxton street, from Forrest street to Concord street	111	Oct. 17, 1892.
Clifton place, from Truxton street to Eager street	111	Oct. 17, 1892.
Grove street, from Truxton street to Eager street	111	Oct. 17, 1892.
Half Moon alley west of Chesnut street	96	May 25, 1891.
Comet street, from a 10-foot alley to fence corner there situated	103	May 27, 1891.
An alley thirty-three (33) feet wide, from York road to about one hundred and thirty-eight (138) feet south of Huntingdon avenue	25	Mar. 6, 1893.
An alley, from Madison street to an alley ten (10) feet wide, between Eden street and Spring street	29	April 5, 1898.
West Falls lane (or place) from Wells street (or Ohio avenue) to a point eighty-five (85) feet seven (7) inches southerly	87	June 7, 1898.

This Board respectfully renews its recommendation for the repeal of the following ordinances:

Ordinance No. 111, approved June 10, 1889, for the closing of Brown's lane from Eden street to Caroline street, because the city has no legal right to close the same, the bed thereof being private property, under a decision of the Court of Appeals of Maryland;

Also, Ordinance No. 105, approved May 27, 1891, for the closing of Comet street, for the reason that to close this street as proposed in said ordinance would shut in improved property, which has no other outlet;

Also, Ordinance No. 26, approved March 20, 1894, for the opening of Windsor avenue from North avenue to Clifton avenue, because a street has already been provided there by private agreement between the parties in interest without expense to the city;

Also, Ordinance No. 106, approved May 28, 1894, to condemn and open Neighbor street from McKim street to Greenmount avenue, because said ordinance is defective in that it does not definitely designate the points at which such opening shall be made;

Also, Ordinance No. 99, approved June 8, 1889, to condemn and open Florence street, 20 feet wide, from Fulton avenue to Retreat street, and re-enact the same to read 18 feet wide, for the reason that Florence street has been opened and paved 18 feet wide by the abutting property owners;

Also, Ordinance No. 101, approved June 8, 1889, to condemn and open Francis street, 66 feet wide, from Retreat street to Whitelock street, and re-enact the same to read 60 feet wide; for the reason that Francis street from Retreat street to Fulton avenue has been opened as a 60-foot street, and the portion of it proposed to be opened by this ordinance has been opened and improved as a 60-foot street by the owners of the abutting property.

Respectfully submitted.

JAMES GLEN,
WM. H. GREEN,
ALFRED A. MORELAND,
Commissioners.

CARL CASEY, *Clerk.*

ANNUAL REPORT

— OF THE —

CITY COLLECTOR,

— TO THE —

Mayor and City Council of Baltimore,

— FOR THE —

FISCAL YEAR ENDING DECEMBER 31st, 1898.

REPORT.

TAX DEPARTMENT,
CITY COLLECTOR'S OFFICE—CITY HALL,
BALTIMORE, January 1, 1899.

To the Honorable Mayor and City Council of Baltimore:

GENTLEMEN: I beg to submit herewith, for your information, a condensed transcript of the records of this department, for the year ending December 31, 1898, showing amount of money received and from what sources, and which is set forth in the various exhibits hereto annexed. Especial attention is called to Tables "K" and "L." Extended comment is unnecessary, as the respective tables are self-explanatory.

I desire, however, to emphasize one or two matters of importance, which, in my judgment, should receive at your hands immediate and careful consideration, and which are as follows, viz:

1st. Table "L" is an exhibit of the "Mortgage Tax" collections. From the data at the command of this office, it is a matter of impossibility to make a proper and adequate collection of this tax. Constant memoranda is being received from the Record Office, unaccompanied by information whereby the mortgagee may be located. The amounts involved are of such insignificant proportions that the expense and labor incurred in the effort are far in excess of the benefits derived from the collection.

I therefore recommend that steps be taken looking to the prompt repeal of this statute.

2d. The present system of biennial assessment of personal property is a source of great expense to the city, without, in my judgment, a corresponding advantage in the matter of securing an increased taxable basis. I am confident that a simpler method could be devised whereby the taxable basis could be increased at

a much less cost. I, therefore, recommend that steps be taken looking to the prompt repeal of this statute.

3d. The system at present in vogue in the Tax Department of this city of paying certain employees in penalties or fees should, in my judgment, be abolished. All employees should be paid a fixed annual salary. The fees and penalties collected from delinquent taxpayers should be turned into the city treasury.

4th. Article 50, Section 48, of the City Code, provides that when the property of a delinquent taxpayer is to be advertised for sale the services of the City Surveyor are to be called into requisition. Article 4, Section 832, Public Local Laws, and Article 43, New City Charter, provide for the adoption by the Mayor and City Council of an official plat of the city. With such an official plat the City Collector could designate the property of delinquent taxpayers without the assistance of the City Surveyor, and the fees provided by law could be collected and turned into the city treasury. I am advised that the city has in its possession in the office of the Topographical Survey data which at small expense could be utilized for this purpose.

I, therefore, recommend the adoption of an official plat of the city by the Mayor and City Council, and that this department be authorized to plat property and collect fees, said fees to be turned into the city treasury.

5th. Article 50, Section 61, of the City Code, provides that the State of Maryland shall pay its proportion for the collection of State taxes in the City of Baltimore. So far as I am able to learn no steps have ever been taken to carry into effect the provisions of this ordinance. During the year 1898, $575,123.77 was collected by the City of Baltimore for the State of Maryland without expense to the State. I, therefore, recommend that immediate efforts be made to secure from the officials of the State a proper remuneration for services rendered.

Resume:

If all of the employees of the Tax Department are placed on regular salary, and the fees or penalties collected are turned into the city treasury, and

If an official city plat is adopted by the Mayor and City Coun-

cil, and the City Collector is authorized to plat the property, without the assistance of the City Surveyor, and the present fees, which are at present paid to the City Surveyor, are collected and turned into the city treasury; and

If the State bears its proportion of the expense of collecting State taxes,

Then I feel that I am safe in predicting that the Tax Department of the City of Baltimore will be not only self-sustaining, but will prove a contributor of no mean proportions to the revenues of the city government.

This is a condition, in my judgment, to be desired, and the subject is one deserving your careful and thoughtful consideration.

Thanks are due and are herewith tendered to His Honor the Mayor for his successful efforts in the matter of securing for this department adequate quarters for the conduct of its business. The present offices afford every facility and convenience, and will prove ample to meet the needs of the department for years to come.

In no other department under the city government are employees called upon to devote more hours to their duties, and I desire at this time to extend to them an expression of my appreciation for the faithful and cheerful service rendered.

Respectfully submitted.

JOHN F. PARLETT, *City Collector.*

TABLES.

TABLE A.

Total City and State Taxes, including the Annex, Received from January 1, 1898, to December 31, 1898.

1898.	City.	State.	Total.	Annex. City.	Annex. State.	Annex. Total.
January	$692,582 60	$58,809 05	$751,391 65	$33,608 66	$12,735 23	$46,343 89
February	73,090 53	5,981 16	79,071 69	1,426 72	1,571 42	5,998 14
March	71,071 84	6,438 79	80,510 63	1,446 50	1,436 32	5,582 82
April	91,582 32	7,961 73	99,544 05	1,260 75	1,445 79	5,706 54
May	2,448,558 89	211,943 00	2,660,501 89	69,626 24	22,260 01	91,886 25
June	345,377 29	30,827 19	376,204 48	14,001 91	5,001 25	19,003 16
July	207,074 00	16,382 88	223,456 88	7,970 52	3,236 16	11,206 68
August	394,299 24	33,759 03	428,058 27	27,971 33	7,052 50	35,023 83
September	180,343 32	14,719 16	195,062 18	6,559 15	2,442 11	9,001 56
October	256,287 76	20,266 81	276,554 57	6,022 70	2,096 12	8,118 82
November	323,191 67	26,627 95	349,822 62	9,710 46	3,432 64	13,173 10
December	930,048 21	67,511 92	997,593 13	30,491 18	11,152 55	41,643 73
	$6,016,510 67	$501,261 67	$6,517,772 34	$218,826 12	$73,862 10	$292,688 52

City including Streets and Mortgages	$6,016,510 67	State, (City Proper)	$501,261 67
City, Annex	218,826 42	State, (Annex)	73,862 10
	$6,235,337 09		$575,123 77

City	$6,235,337 09
State	575,123 77
Total	$6,810,460 86

TABLE B.

Recapitulation of Taxes Collected from January 1, 1898, to December 31, 1898.

	Basis.	Rate.	Tax.	Discount.	Net Tax.	Interest.	Total.
1894.		$1 70					
Real	$202,807		$3,342 35		$3,342 35	$774 36	$4,116 71
Personal	137,659		2,280 60		2,280 60	577 41	2,858 01
1895.		1 75					
Real	523,858		9,167 56		9,167 56	1,233 22	10,400 78
Personal	319,274		5,587 33		5,587 33	847 02	6,434 35
1896.		2 00					
Real	14,074,942		281,498 84		281,498 84	24,254 25	305,753 09
Personal	1,030,746		20,614 92		20,614 92	1,634 88	22,249 80
1897.		2 00					
Real	44,355,397		887,107 94		887,107 94	10,297 37	897,405 31
Personal	6,812,872		136,257 44		136,257 44	1,060 53	137,317 97
Securities	7,904,050	.30	23,712 15		23,712 15	95 31	23,807 46
Total	$75,361,605		$1,369,569 13		$1,369,569 13	$40,774 35	$1,410,343 48
1898.		$2 25					
Real	$154,242,167		$3,470,448 77	$80,489 49	$3,389,959 28		
Personal	40,176,955		903,981 51	21,739 23	882,242 28		
Securities	48,308,589	.30	144,925 78	4,513 59	140,412 19		
Total	$242,727,711		$4,519,356 06	$106,742 31	$4,412,613 75		$4,412,613 75
Opening streets and alleys							157,271 74
Paving " " "							26,025 70
Mortgages							10,256 00
Total							$6,016,510 67

NOTE.—The discount allowed by the Mayor and City Council for the prompt payment of Taxes on Levy of 1898 on Real, Personal and Securities, according to the above table, was $106,742.31, which is equivalent to the tax on a basis of $4,693,951, and this amount deducted from the Gross Basis, $242,727,711, leaves a net basis collected upon of $238,033,760. See Table G.

TABLE C.

Rate of Tax Per One Hundred Dollars.

	1894.	1895.	1896.	1897.	1898.
Police Department	25	28	27	30	33½
Certain expenses	8	8	9	7½	10
Public schools	32	31½	37½	36¾	45¾
City poor	10	12	11	13	14
City direct	52	53	66½	52	64½
Interest on stock debt	23	30	27	32½	37½
Opening streets	7	1	4¾	10	1½
Water tax	2	.....	.....	.....	.....
Water 1926 Sinking Fund	1	1	1	1	1
Internal Improvement 1928 Sinking Fund	3	3	3	3	3
General Sinking Fund	5	5	8¼	8¼	8¼
Public Improvement 1940 Sinking Fund	2	2	2	2	2
Four Million Loan Sinking Fund	.....	½	½	½	½
Water 1916 Sinking Fund	.....	.....	2	2	2
Water 1922 Sinking Fund	.....	.....	½	½	½
Funding 1936 Sinking Fund	.....	.....	.....	1	1
	$1 70	$1 75	$2 00	$2 00	$2 25

TABLE D.

Monthly Receipts of Taxes on the Several Levies from 1894 to 1898 inclusive; for Opening and Paving Streets and Alleys; Secureties and Mortgages; from January 1, 1898, to December 31, 1898.

	1894.	1895.	1896.	1897.	1898.	Opening Streets and Alleys.	Paving Streets and Alleys.	Securities.	Mortgages.	Totals.
Jan..	$35 71	$4,000 20	$12,807 31	$619,993 86	....	$3,112 12	$2,375 13	$19,587 89	$670 05	$692,582 60
Feb..	78 16	1,405 99	15,153 84	52,072 79	.....	177 50	3,335 41	637 11	229 70	73,090 53
Mch..	544 37	1,950 18	25,350 26	38,982 59	.....	167 25	5,386 19	1,277 28	413 42	74,071 84
Apr..	1,723 21	1,583 63	18,376 01	33,213 54	.....	523 12	1,952 18	144 27	1,036 06	91,582 32
May..	276 42	459 12	27,403 90	12,362 14	$2,258,511 17	1,223 83	2,518 64	114,701 57	1,101 80	2,448,558 89
June.	1,320 68	595 84	16,017 79	47,945 36	261,859 72	453 00	1,480 55	9,668 02	36 33	345,377 29
July.	1,700 35	1,176 12	22,276 84	43,959 29	110,386 42	23,120 59	1,950 13	2,500 44	3 82	207,074 00
Aug..	863 23	1,849 15	31,089 48	30,656 57	321,168 75	1,530 08	393 76	3,351 31	96 91	391,299 24
Sept..	239 79	823 16	17,066 63	20,382 28	131,838 83	809 60	....	1,290 47	4,892 56	180,343 32
Oct...	2 52	810 25	21,527 24	26,826 65	202,218 38	903 10	.....	3,037 71	931 88	256,287 76
Nov..	51 64	1,070 89	48,371 82	25,819 96	233,438 99	9,306 48	633 68	3,945 86	555 35	323,194 67
Dec..	138 64	1,110 30	12,561 74	52,477 95	743,449 30	115,944 47	....	4,077 69	288 12	930,048 21
To'ls	$6,974 72	$16,835 13	$328,002 89	$1,034,723 28	$4,272,201 56	$157,271 74	$26,025 70	$164,219 65	$10,256 00	$6,016,510 67

TABLE E.

Division of Taxes received from January 1, 1898, to December 31, 1898.

	1894.	1895.	1896.	1897.	1898.	Total.
Police Department	$826 87	$2,360 76	$40,785 37	$153,504 82	$636,083 36	$833,561 18
Certain Expenses	264 60	674 51	13,595 12	38,376 20	189,875 63	242,786 06
Public Schools	1,058 44	2,655 88	56,646 33	188,043 37	868,681 04	1,117,085 06
City Poor	330 76	1,011 76	16,616 24	66,518 74	265,825 87	350,303 37
City Direct	1,719 93	4,468 60	100,452 81	266,074 99	1,224,697 78	1,597,414 11
Interest on Stock Debt	760 74	2,529 37	40,785 37	166,296 88	712,033 62	922,405 98
Opening Streets	231 54	84 32	7,175 19	51,168 28	28,481 33	87,140 66
Water Tax	66 16					66 16
Water 1926 Sinking Fund	33 10	84 36	1,510 58	5,116 81	18,987 54	25,732 39
Internal Improvement 1928 Sinking Fund	99 26	252 93	4,531 70	15,350 49	56,962 69	77,197 07
General Sinking Fund	165 40	421 57	12,462 17	42,213 77	156,647 36	211,910 27
Public Improvement 1940 Sinking Fund	66 15	168 61	3,021 10	10,233 66	37,975 12	51,464 64
Four Million Loan Sinking Fund		42 22	755 32	2,558 45	9,493 78	12,849 77
Water 1916 Sinking Fund			3,021 12	10,233 66	37,975 12	51,229 90
Water 1922 Sinking Fund			755 34	2,558 44	9,493 77	12,807 55
Funding 1936 Sinking Fund				5,116 82	18,987 55	24,104 37
	$5,622 95	$14,754 89	$302,113 76	$1,023,365 38	$4,272,201 56	$5,618,058 54
Interest	1,351 77	2,080 24	25,889 13	11,357 90		40,679 04
	$6,974 72	$16,835 13	$328,002 89	$1,034,723 28	$4,272,201 56	$5,658,737 58
Opening and Closing Streets and Alleys						157,271 74
Paving Streets and Alleys						26,025 70
Securities						164,219 65
Mortgages						10,256 00
						$6,016,510 67

TABLE F.

Showing the Percentage Collected During the Current Year of the Respective Levies from 1890 to 1898, Inclusive.

Year.	Basis.	Basis Collected Upon.	Per Cent.
1890	$275,710,432	$193,856,812	70.31
1891	278,398,105	201,662,443	72.44
1892	282,720,820	205,802,258	72.79
1893	290.309,113	201,433,295	69.38
1894	292,090,946	210,798,898	72.17
1895	295,065,321	211,962,302	71.84
1896	294,234,565	209,773,836	71.26
1897	320,755,866	231,609,977	72.21
1898	319,286,803	242,727,711	76.02

TABLE G.

Showing the Percentage Collected Monthly on Levy of 1898 to December 31, 1898.

Basis Dec. 31, 1898.	Month.	Basis Collected Upon.	Per Cent.	
$319,286,803.	May	$143,566,012	44.97	
	June	15,192,350	4.75	
	July	5,844,914	1.83	
	August	15,791,868	4.95	
	September	6,488,948	2.03	
	October	9,802,490	3.07	
	November	11,689,216	3.66	
	December	34,351,913	10.76	
		$242,727,711	76.02	Gross.
Gross Basis Collected upon		$242,727,711		
Discount allowed, reduced to basis.		4,693,951		
Net basis collected upon		$238,033,760	74.55	Net.

Real and personal basis estimated upon by the Committee of Ways and means, $266,500,000.

Real and personal basis collected upon.	$194,419,122	72.96	Gross.
	$189,875,621	71.25	Net.

TABLE H.

Summary of Receipts for Opening and Closing Streets and Alleys from January 1, 1898, to December 31, 1898.

Clement street	$1,784 05
Chew street	3,947 93
Fairmount avenue	1,291 25
Alley between Eden and Spring streets	5 00
Lanvale street	177 50
Grove street	570 00
Chesapeake street	497 25
Stevenson street	2,321 60
Clarkson alley	1,007 25
Burke street	12,563 44
Bradford street	4,031 25
Port street	5,305 00
Burrough steeet	525 33
Ludlow street	502 74
Collington avenue	1,466 75
Ensor street	150 00
West street	202 01
Paca street	421 89
Northwest street	903 36
Holmes or Tenth street	1,437 50
Marshall street	14 00
Great Constitution street	444 00
Glover street	5,017 46
Hoffman street	460 08
Patuxent street	6,826 06
Kirby's lane	657 18
Cash from City Register for benefits *vs.* the Mayor and City Council for opening sundry streets, the same having been appropriated for 1898	104,741 86
	$157,271 74

TABLE I.

Summary of Receipts for Paving Streets and Alleys, from January 1, 1898, to December 31, 1898.

Castle street	$1,349 27
Twenty-One-and-One-Half street	587 39
Twenty-Third street	3,184 46
Payson street	720 12
Girard avenue	1,378 20
Kirby's lane	1,431 09
Pulaski street	2,877 89
Little Forrest street	455 70
Scott street	1,812 89
Twenty-Third-and-One-Half street	530 33
Twenty-First street	441 26
Alley between East and Robinson streets	120 84
Alley between Eight and Ninth streets	248 27
Madison street	155 89
Collington avenue	6,166 07
Durham street	1,655 53
Calhoun street	80 54
Druid Hill avenue	258 21
Richardson street	1,616 40
Mulberry street	432 91
Andrea street	11 45
Henry street	510 99
	$26,025 70

TABLE J.

Shows the Total Amounts Collected, the Total Basis Collected Upon During the Year 1898 on Taxes in Arrears and on Levy of 1898, in Comparison with the Same for the Year 1897.

The total amounts collected in 1898 were:		
On taxes in arrears	$75,361,605	$1,410,343 48
On levy of 1898, Real and Personal	194,419,122	4,272,201 56
" " " " Securities	48,308,589 @ 30	140,412 59
Total	$318,089,316	$5,822,957 63
The total amounts collected in 1897 were:		
On taxes in arrears	$82,364,626	$1,644,732 34
" levy of 1897, Real and Personal	183,604,452	3,672,089 04
" " " " Securities	42,863,556 @ 30	128,590 66
Total	$308,832,634	$5,445,412 04

SUMMARY.

1898 taxes in arrears	$75,361,605	$1,410,343 48
1897 " " "	82,364,626	1,644,732 34
1898 levy of 1898, Real and Personal	$194,419,122	$4,272,201 56
1897 " " 1897, " " "	183,604,452	3,672,089 04
1898 levy of 1898 Securities	$48,308,589	$140,412 59
1897 " " 1897 "	42,863,556	128,590 66

TABLE K.

Showing the Total Collections made during the year 1898 on Levy of 1898, Taxes in Arrears, Securities and Mortgages in Comparison with the Estimate as made by the Committee on Ways and Means.

1898.	Total Amount Collected.	Total Amount Estimated.	Deficiency.	Excess.	Per Cent. Collected.
Levy of 1898.					
City	$4,272,201 56	$4,197,375 00		$74,826 56	
Annex	141,538 03	150,000 00	$8,461 97		94.36
Securities	154,513 82	150,000 00		4,513 82	
Total	$4,568,253 41	$4,497,375 00	$8,461 97	$79,340 38	
Taxes in Arrears.					
City	$1,345,856 98				
Annex	59,597 30				
Securities	26,047 55				
Total	$1,431,501 83	$1,698,430 00	$266,928 17		84.28
Mortgages	$10,256 00	$10,000 00		$256 00	
Interest	42,028 41	41,174 25		854 16	

SUMMARY.

Estimated Collections—Levy of 1898		$4,497,375 00
" " Taxes in arrears, including interest		1,739,604 25
" " Mortgages		10,000 00
		$6,246,979 25
Amounts Collected—Levy of 1898	$4,568,253 41	
" " In arrears	1,473,530 24	
" " Mortgages	10,256 00	
		$6,052,039 65
Amount estimated in excess of collections		$194,839 60

NOTE.—The $4,197,375.00, computed as collectible on current taxes, represented 70 per centum of the basis estimated by the Committee on Ways and Means on real and personal. The amount actually collected on real and personal, $4,272,201.56, represents 71.25 per cent.

TABLE L.

Shows the Amount of Mortgage Tax Collected Monthly from January 1, 1898, to December 31, 1898.

1897 Mortgage.	Interest Collected Upon.	8 Per Cent. Tax.	Interest.	Total.	City's Proportion 75 Per Cent.	State's Proportion 25 Per Cent.
January	$11,167 46	$893 40		$893 40	$670 05	$223 35
February	3,808 90	304 73	$1 53	306 26	229 70	776 56
March	6,821 85	545 75	5 46	551 21	413 42	137 79
April	17,012 27	1,360 99	20 42	1,381 41	1,036 06	345 35
May	18,003 32	1,440 27	28 80	1,469 07	1,101 80	367 27
June	590 95	47 26	1 18	48 44	36 33	12 11
July	61 93	4 95	15	5 10	3 82	1 28
August	1,560 68	124 85	4 37	129 22	96 91	32 31
September						
October	42 00	3 36	15	3 51	2 63	88
November	129 46	10 36	52	10 88	8 16	2 72
December						
Total	$59,198 82	$4,735 92	$62 58	$4,798 50	$3,598 88	$1,199 62

1898 Mortgage.	Interest Collected Upon.	8 Per Cent. Tax.	Discount.	Net Tax.	City's Proportion 75 Per Cent.	State's Proportion 25 Per Cent.
September	$85,834 37	$6,866 75	$343 34	$6,523 41	$4,892 56	$1,630 85
October	16,132 86	1,290 63	51 63	1,239 00	929 25	309 75
November	9,401 87	752 15	22 56	729 59	547 19	182 40
December	4,801 83	384 15		384 15	288 12	96 03
Total	$116,170 93	$9,293 68	$417 53	$8,876 15	$6,657 12	$2,219 03

City's proportion 1897 mortgages collected	$3,598 88
" " 1898 " "	6,657 12
	$10,256 00

TABLE A.—Annex.

The Collections for the Annex during the year 1898 were $218,826.42, of which there were collected on—

Levy of 1894	$183 08
" 1895	357 43
" 1896	10,549 06
" 1897	52,097 19
" 1898	155,639 66
	$218,826 42

The basis collected upon were—

Levy of 1894	$25,600 00
" 1895	52,531 00
" 1896	1,624,213 00
" 1897	8,971,870 00
" 1898	28,951,971 00

The amount of State Taxes collected on were—

Levy of 1894	$54 18
" 1895	104 40
" 1896	3,110 18
" 1897	19,799 20
" 1898	50,794 14
	$73,862 10

Total City	$218,826 42	
Total State	73,862 10	
		$292,688 52

TABLE B.—Annex.

Recapitulation of Taxes Collected from January 1, 1898, to December 31, 1898.

	Basis.	Rate.	Tax.	Discount.	Net Tax.	Interest.	Total.
1894.		.60					
Real	$6,225		$37 35		$37 35	$7 13	$44 48
Personal	19,375		116 25		116 25	22 35	138 60
1895.		.60					
Real	40,360		242 17		242 17	31 66	273 83
Personal	12,171		73 03		73 03	10 57	83 60
1896.		.60					
Real	1,581,094		9,486 59		9,486 59	784 58	10,271 17
Personal	43,119		258 72		258 72	19 17	277 89
1897.		.60					
Real	7,329,294		43,975 76		43,975 76	444 75	44,420 51
Personal	901,238		5,407 43		5,407 43	29 16	5,436 59
Securities	741,338	.30	2,224 05		2,224 05	16 04	2,240 09
Total	$10,674,214		$61,821 35		$61,821 35	$1,365 41	$63,186 76
1898.							
Real	$19,250,872	.60	$115,505 24	$2,490 74	$113,014 50		
Personal	4,855,094	.60	29,130 57	607 04	28,523 53		
Securities	4,846,005	.30	14,538 00	436 37	14,101 63		
	$28,951,971		$159,173 81	$3,534 15	$155,639 66		$155,639 66
							$218,826 42

ANNUAL REPORT

—— OF THE ——

INSPECTOR OF GAS AND ILLUMINATING OILS,

—— TO THE ——

Mayor and City Council of Baltimore,

—— FOR THE ——

FISCAL YEAR ENDING DECEMBER 31st, 1898.

REPORT.

OFFICE OF INSPECTOR OF GAS AND ILLUMINATING OILS,
CITY HALL.

BALTIMORE, January 1, 1899.

To the Honorable Mayor and City Council:

GENTLEMEN: By a careful examination of the weekly reports in regard to the quality of petroleum sold to the citizens, "shows that there has been a steady improvement in its quality this year over former." When first assuming this office the Grocers' Association and individual venders laid every obstacle for the Inspector, to surmount, in obtaining for the citizens a paraffine that could be handled by those not appreciating its dangers if below a standard; that has been found to be safe in the hands of those that are careless. Baltimore, I think, from correspondence from other cities in the Union, has a higher standard. Prosecutions for selling a low grade of petroleum, I am happy to say, has not occurred this year, and for weeks the flashing point for all samples and varieties has been above the legal standard, 120 degrees Fahrenheit. It is also gratifying to note that only twenty-one accidents occurred in 1898, against forty-one in 1897. The following is the tabulated statement for months. In examining the causes I find them due to gross carelessness, and that the great Creator is more careful of us than we are of ourselves, showing "there is a divinity that shapes our ends rough hew them how we will."

Coal oil lamp accidents by months:

January	4
February	6
March	None.
April	1
May	None.
June	2
July	2
August	1
September	1
October	2
November	1
December	1

The illuminating gas has maintained the purity that has noted it in past years; the absence of sulphur and other constituents, that would make it deleterious after combustion are absent. The photometric value, a table of which is appended, shows its value by months. The standard is rated at five cubic feet per hour—compared with a sperm candle burning one hundred and twenty grains in the same period. Of course complaints are made in regard to the quality of gas, but if those making them would exercise the same care in examining the tips to see they are perfect, as the merchants do in their balances, they would find that the inspector is sustained.

Standard of gas by months for year 1898:

	Highest.	Lowest.	General Average.
January, 1898	27.35	26.07	26.83
February, 1898	34.73	28.11	30.19
March, 1898	30.15	27.30	28.89
April, 1898	28.41	23.72	26.41
May, 1898	28.11	26.17	27.14
June, 1898	28.64	27.20	27.84
July, 1898	28.64	25.52	27.52
August, 1898	26.60	22.27	25.24
September, 1898	29.72	25.60	27.65
October, 1898	30.00	26.51	28.80
November, 1898	30.00	23.40	26.77
December, 1898	28.60	25.77	27.20

Respectfully submitted.

P. B. WILSON,

Inspector of Gas and Illuminating Oils.

15TH ANNUAL REPORT

— OF THE —

Board of Fire Commissioners

— AND —

FORTIETH ANNUAL REPORT OF THE FIRE DEPARTMENT,

— TO THE —

Mayor and City Council of Baltimore,

— FOR THE —

FISCAL YEAR ENDING DECEMBER 31st, 1898.

OFFICERS OF THE FIRE DEPARTMENT.

FIRE COMMISSIONERS:

A. ROSZEL CATHCART, - - - PRESIDENT.
HON. WILLIAM T. MALSTER, *Ex-officio.*
J. C. MULLER. C. M. SHORT.

SECRETARY AND CLERK:

STANLEY BAKER.

ASSISTANT CLERK:

WALTER E. HILL.

CHIEF ENGINEER:

WILLIAM C. McAFEE.

DISTRICT ENGINEERS:

First District, - - - GEORGE W. HORTON.
Second District, - - - AUGUST EMRICH.
Third District, - - - FREDERICK BRANAN.
Fourth District, - - - FIELDING H. LUCAS.
Fifth District, - - - LEVIN H. BURKHARDT.
Sixth District, - - - WILLIAM H. HARTMAN.

SUPERINTENDENT OF MACHINERY:

GEORGE J. LINSENMEYER.

ASSISTANT SUPERINTENDENT OF MACHINERY:

THOMAS G. GRIFFITH.

SUPERINTENDENT OF FIRE ALARM TELEGRAPH:

FRANK G. BOYD.

REPORT.

OFFICE OF
BOARD OF FIRE COMMISSIONERS—CITY HALL,
BALTIMORE, January 1, 1899.

To the Honorable the Mayor and City Council of Baltimore:

GENTLEMEN: The Board of Fire Commissioners have the honor to submit herewith the Fortieth Annual Report of the Fire Department of the City of Baltimore.

Since the organization of the department, never has it been better equipped for the performance of the arduous duties assigned to it, than at present: the complement of companies necessary to furnish adequate protection to all parts of the city is, however, still far from full.

During the year, the physical condition of the department has been greatly strengthened by the addition of new apparatus, and the improvement of that already in service.

Each succeeding year brings with it greater demands upon the resources of the department, the record of alarms responded to in 1898, being 255 in excess of that for 1897.

While the losses for 1898 show an increase as compared with the preceding year, such increase was not due to any lack of efficiency on the part of the department. The two fires at which the greatest loss occurred, (the car barns of the Consolidated Railway Company, and the tinware factory of Messrs. Keen & Hagerty,) were each located in remote sections of the city, in a vicinity poorly supplied with water, and in each instance, the buildings were doomed before the arrival of the department.

During the year No. 11 Hook and Ladder Truck Company was organized and placed in service. Unfortunately the building to accommodate this company was not erected, and the com-

pany is temporarily located in the quarters of No. 18 Engine Company, on Twenty-first street. In its present location, this truck company fails to afford protection to the territory where it is most needed, and it is earnestly hoped that steps will be taken looking to the immediate erection of quarters for this company, on the lot originally designated.

During the year, three members of the department met their death while in the performance of duty, viz.:

Ladderman Harry Courtney, No. 3 Hook and Ladder Company.

Pipeman James T. Braden, No. 7 Engine Company.

Probationer C. Louis Francke, No. 15 Engine Company.

In accordance with the provisions of the code, the families of each of the members named, received $1,000—$500 from the city, and $500 from the insurance company.

Embodied herein and forming part of this report, will be found the report of the Chief Engineer, covering the work of the department during the year, its present condition and its requirements.

The various recommendations made by the Chief Engineer, and which have been embodied in previous reports, have the hearty endorsement and approval of this Board, as they look to the welfare and protection of the citizens, and it is sincerely hoped that your Honorable Body will give the same most careful consideration.

The report of the Superintendent of Fire-Alarm Telegraph, submitted herewith, sets forth at length the work of that department during the year, improvements made and present condition, to which your attention is respectfully invited.

Exhibits are herewith submitted, showing receipts and disbursements for the year ending December 31, 1898; also, estimate of the financial requirements of the Department for the year 1899.

Respectfully,

A. ROSZEL CATHCART. *Pres't.*,
JAMES C. MULLER,
CHARLES M. SHORT,
} *Fire Commissioners.*

ESTIMATE FOR 1899—CITY.

Salaries		$302,400 00
Apparatus	$ 9,000 00	
Apparatus repairs	12,000 00	
Accident	5,000 00	
Feed	15,000 00	
Fuel	5,000 00	
Furniture	3,000 00	
Harness	1,500 00	
Horseshoeing	3,500 00	
Hose	10,000 00	
Horses	7,500 00	
Gas	2,000 00	
Oils, paints, store-room, etc	4,500 00	
Office expenses	1,500 00	
Wharf rent	600 00	
Telephone rental	1,000 00	
Miscellaneous	2,500 00	
Washing	2,600 00	
Insurance of members	3,000 00	
Pensioners	10,000 00	
Sick	2,000 00	
Fire-alarm Telegraph	10,000 00	
Fire-alarm boxes	9,000 00	
		120,200 00
		$422,600 00

ESTIMATE FOR 1899—ANNEX.

Salaries		$64,300 00
Apparatus	$1,000 00	
Apparatus repairs	2,000 00	
Accident	500 00	
Feed	5,000 00	
Fuel	1,500 00	
Furniture	700 00	
Harness	750 00	
Horseshoeing	1,200 00	
Hose	1,000 00	
Horses	4,000 00	
Gas	500 00	
Oils, paints, store-room, etc	1,000 00	
Telephone rental	55 00	
Miscellaneous	500 00	
Washing	600 00	
Insurance of members	500 00	
Pensioners	400 00	
Sick	500 00	
Fire-alarm Telegraph	1,000 00	
Fire-alarm boxes	1,250 00	
	$23,955 00	
Unexpended balance for equipping No. 11 Hook and Ladder Company	6,000 00	
		$29,955 00
		$94,255 00

APPROPRIATIONS.—City.

Amount appropriated by the Mayor and City Council out of General Levy for 1898	$406,300 00	
Amount appropriated by the Mayor and City Council—Special	175 00	
		$406,475 00
Amount drawn from City Comptroller		406,180 69
Balance undrawn		$294 31

SPECIAL APPROPRIATION.

Amount appropriated to erect fire-alarm box.	$175 00
Amount drawn from City Comptroller	144 62
Balance undrawn	$30 38

GENERAL STATEMENT.

Amount drawn from City Comptroller account "General Appropriation"	$406,036 07	
Amount drawn from City Comptroller account "Special Appropriation"	144 62	
Amount received from sale of manure and old material	485 32	
		$406,666 01
Expenditures, account department	$406,180 69	
Amount paid to City Register	485 32	
		$406,666 01

EXPENDITURES—CITY.

Salaries		$286,281 81
Apparatus	$11,001 90	
Apparatus repairs	14,081 11	
Accident	5,275 44	
Feed	10,969 38	
Fuel	3,849 60	
Furniture	1,780 30	
Harness	1,124 64	
Horseshoeing	3,393 80	
Hose	2,070 00	
Horses	7,460 00	
Gas	1,684 77	
Oils, paints, store-room, etc	3,604 63	
Office expenses	866 30	
Wharf rent	600 00	
Telephone rental	979 44	
Miscellaneous	4,485 36	
Washing	2,571 12	
Insurance of members	2,053 12	
Pensioners	9,253 67	
Sick	2,418 73	
Fire-alarm Telegraph	30,230 95	
	$119,754 26	
Special Appropriation "Fire-Alarm Box"	144 62	119,898 88
		$406,180 69

COMPANY EXPENDITURES—CITY.

No. 1	Engine Company	$11,511 54	
" 2	" "	12,898 25	
" 3	" "	12,152 87	
" 4	" "	12,752 24	
" 5	" "	11,305 38	
" 6	" "	12,235 21	
" 7	" "	13,997 42	
" 8	" "	11,013 39	
" 9	" "	15,182 02	
" 10	" "	11,655 81	
" 11	" "	11,129 50	
" 12	" "	11,258 12	
" 13	" "	12,406 41	
" 14	" "	11,048 50	
" 15	" "	23,002 81	
" 16	" "	14,919 57	
" 17	" "	12,319 70	
" 19	" "	11,677 38	
" 1	Hook and Ladder Company	11,349 36	
" 2	" " " "	11,754 02	
" 3	" " " "	12,441 07	
" 4	" " " "	12,426 38	
" 5	" " " "	11,643 84	
" 6	" " " "	12,368 43	
" 10	" " " "	12,444 64	
Officers' salaries and expenses		22,301 38	
Probationary Firemen		10,825 45	
Office expenses		869 71	
Pensioners		9,250 67	
Fire-alarm Telegraph		30,687 10	
Reserve		8,231 44	
Miscellaneous		2,676 71	
Store-room		4,299 75	
			$406,036 07
Fire Alarm Box			144 62
			$406,180 69

FINANCIAL STATEMENT OF THE FIRE DEPARTMENT FOR TWELVE MONTHS ENDING DEC. 31, 1898.

Dr.		Cr.	
January, drawn from City Comptroller..	$32,423 11	January, expenditures.....	$32,423 11
February, " " " " ..	30,988 31	February, "	30,988 31
March, " " " " ..	32,090 29	March, "	32,090 29
April, " " " " ..	31,561 48	April, "	31,561 48
May, " " " " ..	31,379 84	May, "	31,379 84
June, " " " " ..	31,339 97	June, "	31,339 97
July, " " " " ..	34,195 82	July, "	34,195 82
August, " " " " ..	30,412 30	August, "	30,412 30
September, " " " " ..	40,245 08	September, "	40,245 08
October, " " " " ..	32,500 92	October, "	32,500 92
November, " " " " ..	36,883 97	November, "	36,883 97
December, " " " " ..	42,159 60	December, "	42,159 60
	$406,180 69		$406,180 69

APPROPRIATIONS—ANNEX.

Amount appropriated by the Mayor and City Council out of general levy for 1897.	$69,900 00	
Amount appropriated by the Mayor and City Council, "special"	27,900 00	
		$97,800 00
Amount drawn from City Comptroller...		91,414 00
Balance undrawn		$6,386 00

SPECIAL APPROPRIATIONS.

Amount appropriated to equip No. 21 Engine Company and place in service..	$14,400 00
Amount drawn from City Comptroller...	14,126 32
Balance undrawn	$273 68
Amount appropriated to equip No. 11 Hook and Ladder Company and place in service	$13,500 00
Amount drawn from City Comptroller....	7,468 51
Balance undrawn	$6,031 49

GENERAL STATEMENT.

Amount drawn from City Comptroller, account "General Appropriation	$69,819 17	
Amount drawn from City Comptroller, account "Special Appropriation".....	$21,594 83	
		$91,414 00
Expenditures account department.....		91,414 00

EXPENDITURES—Annex.

Salaries		$53,888 03
Apparatus	$5,674 10	
Apparatus repairs	1,317 01	
Accident	184 29	
Feed	2,608 31	
Fuel	531 44	
Furniture	186 60	
Harness	269 23	
Horseshoeing	630 50	
Horses	455 00	
Gas	282 80	
Oil, paints, store-room, etc	846 15	
Insurance of members	333 98	
Miscellaneous	667 42	
Washing	364 50	
Sick	599 91	
Fire-alarm Telegraph	944 90	
Telephone rental	35 00	
		15,931 14
		$69,819 17
Equipping No. 21 Engine Co		14,126 32
" No. 11 Hook and Ladder Co		7,468 51
		$91,414 00

COMPANY EXPENDITURES—ANNEX.

No. 1 Chemical Company	$ 3,188 35	
" 2 " "	2,928 17	
" 3 " "	3,231 40	
" 4 " "	3,144 60	
" 5 " "	3,339 39	
" 6 " "	2,960 02	
" 7 " "	3,956 07	
" 18 Engine "	12,565 80	
" 20 " "	12,008 44	
" 7 Hook and Ladder Company	805 38	
" 8 " " " "	805 42	
" 9 " " " "	935 35	
Officers' salaries and expenses	1,707 01	
Fire-alarm Telegraph	979 90	
Reserve	5,616 83	
Store-room	909 49	
Miscellaneous	141 28	
		$59,222 90
No. 21 Engine Company, special appropriation		24,722 59
No. 11 Hook and Ladder Company, special appropriation		7,468 51
		$91,414 00

FINANCIAL STATEMENT OF THE FIRE DEPARTMENT, ANNEX, FOR TWELVE MONTHS ENDING DECEMBER 31, 1898.

Dr.		Cr.	
January, drawn from City Comptroller	$10,892 63	January, expenditures	$10,892 63
February, " " " "	5,902 67	February, "	5,902 67
March, " " " "	9,669 09	March, "	9,669 09
April, " " " "	5,217 86	April, "	5,217 86
May, " " " "	6,659 50	May, "	6,659 50
June, " " " "	6,761 45	June, "	6,761 45
July, " " " "	5,816 44	July, "	5,816 44
August, " " " "	5,976 62	August, "	5,976 62
September, " " " "	8,927 99	September, "	8,927 99
October, " " " "	5,716 57	October, "	5,716 57
November, " " " "	13,294 41	November, "	13,294 41
December, " " " "	6,578 77	December, "	6,578 77
	$91,414 00		$91,414 00

RECAPITULATION.

Account.	Appropriation.	Expenditures.	Balance.
City Department	$406,300 00	$406,036 07	$263 93
Special, fire-alarm box	175 00	144 62	30 38
	$406,475 00	$406,180 69	$294 31
Annex Department	69,900 00	69,819 17	80 83
Special, No. 21 Engine Co.	14,400 00	14,126 32	273 68
Special, No. 11 Hook and Ladder Company	13,500 00	7,468 51	6,031 49
	$504,275 00	$497,594 69	$6,680 03
Old material	.....	.....	485 32
			$7,165 63

REPORT

OF THE

CHIEF ENGINEER.

REPORT.

OFFICE OF THE CHIEF ENGINEER,
BALTIMORE, January 1, 1899.

To the Honorable Board of Fire Commissioners:

GENTLEMEN: I respectfully submit herewith my third annual report, it being the Fortieth Annual Report of the Paid Fire Department.

FIRES.

During the year 1898 the department received and responded to 1,373 alarms of fire, 920 of which were received from street and automatic boxes, and 445 verbally, or by telephone, showing an increase of 105 box alarms, and 150 silent alarms, as compared with the record for 1897.

Of the alarms received as above noted, 75 of the box alarms, or nearly nine per cent., were false. Of the remaining number of alarms, box and silent, 1,094 were for fires in brick or stone buildings, 145 were for fires in wooden buildings, and 59 were for other than building fires, such as rubbish on lots, brush, hay stacks, vessels, etc. At but 41 fires was the adjoining property damaged, and in these cases but to little comparative extent.

The total loss for the year, approximating November and December losses, was $878,592.46, the insured value of the property involved being $4,885,792.60. A large percentage of the loss for the year is accounted for by the fire which destroyed the car-barn of the Consolidated Railway Company, located at Irvington, together with its contents of 130 cars and a large stock of paints, oils, etc., on May 29, the adjusted loss at which fire was $254,783.76. This building was located at the extreme western boundary of the city, several miles from the nearest steamer com-

pany, in a section of the city supplied with water by a private corporation, which supply of water was, on this occasion, entirely inadequate to the needs of a fire of this magnitude. By the time of the arrival of the first company, the entire building and contents were hopelessly involved, and the efforts of the department were confined principally to preventing the spread of the flames to the property adjoining on the east.

APPARATUS.

All of the apparatus in service is in good condition. Particular attention has been paid by those charged with this duty to maining the equipment in the highest possible state of efficiency and safety, and it is a matter of exceeding gratification to note that their efforts in this direction have been well applied.

The work of equipping the hose wagons of the department with chemical tanks has been completed, and all of the wagons are now of the combination type.

Engine No. 9 was rebuilt by the La France Fire Engine Company, being supplied with a new boiler and platform springs, the pumps and machinery overhauled and placed in good condition, and the engine painted.

A new second-size steamer, built by the La France Fire Engine Company, was received and placed in service with No. 7 Engine Company. The engine formerly assigned to this company was assigned to No. 5 Engine Company, and former No. 5 engine assigned to No. 21 Engine Company.

A new first size engine, built by the La France Fire Engine Co., was received and placed in service with No. 1 Engine Company; the engine formerly assigned to No. 1 Engine Company was assigned to No. 13 Engine Company, and former No. 13 (rotary) placed in reserve.

A new first size Hayes Hook and Ladder Truck, was received and placed in service with No. 4 Hook and Ladder Company, and former Truck No. 4, assigned to No. 11 Hook and Ladder Company.

A new Hale Water Tower, built by the Fire Extinguisher Manufacturing Company, was received and placed in service with

No. 15 Engine Company, replacing the tower which had been in service continuously since 1891, which, after being thoroughly repaired and painted, will be placed in reserve, where it will be available for service should the occasion permit the use of two towers.

A new combination truck, (chemical engine and hook and ladder truck,) built by C. T. Holloway & Co., was received and placed in service with No. 7 Chemical Engine Company.

HORSES.

The total number of horses in service and in reserve is 181. During the year 52 were purchased, 44 were condemned as unfit for further service, and three died. The total number of cases of sickness and injury treated at the hospital was 143.

NEW COMPANY.

On October 8, 1898, No. 11 Hook and Ladder Company was organized and placed in service, pending the erection of permanent quarters, in quarters of No. 18 Engine Company, necessitating the transfer of No. 3 Chemical Engine Company, which formerly occupied a portion of these quarters, to quarters of No. 20 Engine Company.

NEW MEMBER.

On June 1, the position of Assistant Superintendent of Machinery was, by act of the Mayor and City Council, created, and Mr. Thomas G. Griffith was, by the Board, appointed to fill the position.

FIRE-PLUGS.

The number of plugs in service has been increased to 2,113 by the erection, by the Water Deparment, during the past year, of 149 plugs. This number is still insufficient, and I beg to suggest that the Water Department be requested to proceed with the work of erecting additional plugs as rapidly as possible. The recommendation made in my report of last year in regard to a pipe-line to be used by the fire-boat should receive early consideration. The system proposed is not in the nature of an experiment, similar system being in successful operation in other cities.

RECOMMENDATIONS.

Under this head, I beg to again call your attention to the urgent necessity for the adoption of the recommendations made in previous reports, which have not been acted upon, as follows, viz.:

An engine company to be placed in service in the vicinity of Caroline and Lancaster streets.

An engine company to be placed in service in the vicinity of Cheasapeake and Hudson streets.

An engine company to be placed in service in the vicinity of Pratt and Carey streets.

An engine company to be placed in service in the vicinity of York road and Gorsuch avenue, Waverly. The abolishment of No. 4 Chemical Engine Company, and the transfer of members of this company to No. 7 Hook and Ladder Company.

The addition of one member to each of the following companies, viz.: Engine Companies Nos. 1, 3, 5, 7, 8, 9, 10, 11, 12, 13, 14, Hook and Ladder Companies Nos. 1 and 2, Chemical Engine Companies Nos. 1, 2, 3, 5 6, and three members to No. 8 Hook and Ladder Company.

The erection in all of the public schools of a fire-alarm box.

The compulsory provision of portable fire-escapes in each room of all hotels, boarding-houses and lodging-houses.

The enactment of legislation that will prevent the overcrowding of theatres, concert halls, and other places of public gathering; the compulsory erection in all buildings of this description of a fire-alarm box, and the installation of such fire extinguishing appliances as this department may direct, to be under the supervision and control of the department during the time audiences are assembled.

In addition to the above recommendations, I beg to call your attention to the urgent and immediate desirability of providing permanent quarters for No. 11 Hook and Ladder Company, on or near the site originally selected, that is to say, on North avenue, near the west approach to North avenue bridge. This company is at present quartered with No. 18 Engine Company in a building much too small and unadapted to the purposes of an engine and truck company. The sleeping room is crowded to such an extent

that the movements of the men are greatly impeded when responding to alarms of fire, to say nothing of the discomfort and menace to health, occasioned by such a large number of men being compelled to sleep in a room of the size of that occupied by these companies. The same conditions obtain on the apparatus floor. The members of No. 18 Engine Company, and No. 11 Hook and Ladder Company, are compelled, by reason of lack of space, to utilize as a sitting-room the space formerly occupied as a horse-stall, while horses and apparatus are so located as to greatly increase the liability to accident.

There is, however, a more important reason for the erection of the desired quarters, in the fact that this truck company, which is distinctively a life-saving corps, does not furnish adequate protection to a large and densely populated section of the city, which protection could be afforded if the company was suitably located.

APPARATUS IN SERVICE.

Twenty-one steam fire engines, 6 chemical engines, 8 Hayes' ærial trucks, 1 combination truck, 2 bank ladder trucks, 21 combination wagons, 19 hose carriages, 1 fire-boat, 1 water tower, 7 Concord wagons, (used by officers,) 2 wagons for use of Superintendent and Assistant Superintendent of Machinery, 1 supply wagon, 3 wagons for use of linemen, 1 large wagon for use of Fire-alarm Telegraph Department, and 3 carriages for use of Commissioners, and Superintendent of Fire-alarm Telegraph.

APPARATUS IN RESERVE.

Seven steam fire engines, 3 Hayes' ærial trucks, 1 water tower, 1 bank ladder truck, 1 combination wagon, 4 Concord wagons, 3 chemical engines, 2 hose carriages, and 1 truck for moving disabled apparatus.

DEATHS.

The past year has been a most disastrous one in regard to loss of life, it being my sad duty to report the death of three members of the uniformed force, who lost their lives in the discharge of their duty.

Ladderman Harry Courtney, No. 3 Hook and Ladder Company, was killed by falling from a ladder while drilling in front of quarters

on June 9. Ladderman Courtney was 39 years of age, and had been a member of the department two years and two months.

Pipeman James T. Braden, No. 7 Engine Company, was so seriously injured in a collision between the hose wagon of No. 7 Engine Company, which he was driving, and the steamer of No. 13 Engine Company, by being thrown from the seat while responding to box No. 327, on July 19, that he died within twelve hours after being injured. Pipeman Braden was 30 years of age, and had been a member of the department four years and nine months.

Probationary Fireman Charles L. Francke was instantly killed on August 27 by being run over by No. 10 steamer, which he was assisting to draw through the streets of Laurel, Md. Engine Company No. 10 had been ordered to Laurel in response to an appeal for assistance from the Mayor of that city. It being impossible to disembark the horses from the cars, the members of the department present, assisted by citizens, were compelled to draw the hose wagon and steamer to the desired location. While engaged in this work Probationary Francke, who was stationed at the pole of the engine, stumbled and fell, the left front wheel of the steamer passing over his head, causing instant death. Probationer Francke was 29 years of age, and had been a member of the department but one month and fourteen days.

Embodied herein are tables of statistical information relative to the work performed by the department, roster of the department, causes of fires, etc., which are respectfully submitted for your information.

In conclusion, I desire to thank the Board for the uniform kindness and courtesy extended at all times, and the officers and members of the uniformed force for a full and conscientious performance of every duty.

I have also to thank the officers and members of the Fire Insurance Salvage Corps, for assistance rendered and for statements of losses and insurance, which form a part of this report.

Thanks are also due the Police Department for its continued co-operation on all occasions.

Respectfully submitted.

WILLIAM C. MCAFEE, *Chief Engineer.*

COMPARATIVE FIRE DEPARTMENT STATISTICS.

City.	Area Sq. Miles.	Population.	Engine Companies.	Hook and Ladder Companies.	Chemical Engine Companies.	Combination Chemical Engine and Hose Wagon.	Water Towers.	Fire-boats.	Members.	Fire-plugs.	Fire-cisterns.	Fire-alarm Boxes.	Status as to Population.	Status as to Fire Department.
New York	.....	3,204,360	131	39	39	.....	4	6	2,212	19,000	.....	2,150	1	1
Chicago	187¼	1,851,588	84	27	27	.....	2	4	1,113	18,433	100	1,297	2	2
Philadelphia	129⅕	1,500,000	46	9	5	32	1	1	736	11,600	.....	982	3	4
St. Louis	62	635,000	38	12	1	.....	2	....	501	6,200	.....	929	4	5
Baltimore	32½	505,000	20	11	6	21	1	1	397	2,113	.....	410	5	10
Boston	37	500,000	43	17	12	3	2	2	850	7,000	200	610	6	3
Buffalo	42	400,000	26	9	6	.....	1	2	450	4,000	15	435	7	7
Cleveland	32	380,000	26	9	3	.....	1	2	390	6,000	40	355	8	8
San Francisco	42	375,000	34	7	6	1	.....	.....	568	3,528	26	267	9	6
Cincinnati	37⅕	372,000	28	13	.....	.....	1	....	340	2,554	303	445	10	12
Detroit	30	300,000	22	10	3	.....	1	1	388	3,397	587	426	11	9
New Orleans	46	300,000	27	7	12	.....	1	....	302	1,757	211	367	12	14
Pittsburg	28⅓	294,000	28	8	2	.....	.....	.....	371	2,284	.....	466	13	11
Milwaukee	23	285,000	20	8	8	.....	1	3	336	2,350	158	358	14	13
Washington	73	280,000	14	4	2	.....	.....	....	217	1,832	3	271	15	17
Louisville	22	220,000	17	5	.....	.....	.....	....	189	161	680	277	16	15
Columbus	16¼	140,000	13	5	1	.....	1	....	154	1,300	51	138	17	16

DESCRIPTION OF ENGINES.

Engines.	Built by	When Built.	Rebuilt by	When Rebuilt.	Size.	Cylinders. Diam.	Cylinders. Stroke.	Pumps. Diam.	Pumps. Stroke.	Boilers. Diam.	Boilers. Height	Gallons per Minute.	Weight as Drawn to Fires.	Style of Engine.
No. 1	La France Co.	1898			1st	8½	9	5¼	9	36	66	1,000	10,400	Vertical, crane-neck, piston double.
" 2	La France Co.	1889			1st	8¾	8	5	8	33	60	900	9,600	" " " "
" 3	Ives & Bro.	1874	La France Co.	1892	1st	8¾	10	5	10	38	64	1,000	10,760	" " " "
" 4	La France Co.	1892			1st	8¼	9	5	9	36	60	900	9,600	" " " "
" 5	La France Co.	1891			3d	7⅞	8	4¼	8	30	60	600	7,120	" " " "
" 6	La France Co.	1890			2d	8¼	8	4⅜	8	32	60	700	8,500	" " " "
" 7	La France Co.	1898			2d	8	9	4⅛	9	33	62	700	8,000	" " " "
" 8	La France Co.	1888			3d	8⅛	6	4⅜	6	30	60	600	7,100	" " " "
" 9	La France Co.	1886	La France Co.	1898	3d	7⅞	8	4⅜	8	30	65	650	7,500	" " " "
" 10	Clapp & Jones	1886	La France Co.	1897	2d	7½	7	4⅜	7	32	60	700	7,180	" " " "
" 11	La France Co.	1889			2d	8⅝	8	4⅜	8	34	60	750	8,400	" " " "
" 12	La France Co.	1894			2d	8¼	8	4⅜	8	33	62	750	8,660	" " " "
" 13	La France Co.	1893			2d	8¼	8	4⅜	8	33	62	750	8,200	" " " "
" 14	Clapp & Jones	1888			3d	7	7	4⅜	7	32	60	600	6,990	" " " "
" 15	Clapp & Jones	1891			1st	9¾	8	5¾	8	38	62	1,000	9,460	" " " "
*" 16	Hull—Brusstar Bros. Pump—Thos. Manning Engine—E. J. Codd Co.	1891	J. E. Woodall & Co.	1897		16	10	9	10	...	...	4,400	.....	Double vertical pumps.
" 17	La France Co.	1895			2d	8¼	8	4⅜	8	33	62	750	8,700	Vertical, crane-neck, piston double.
" 18	La France Co.	1893			3d	7⅞	8	4¼	8	32	60	600	7,000	" " " "
" 19	La France Co.	1895			3d	7⅞	8	4¼	8	32	60	600	7,100	" " " "
" 20	La France Co.	1897			3d	7¾	8	4¼	8	30	60	650	8,950	" " " "
" 21	Clapp & Jones	1885			3d	6¾	7	3¾	7	32	60	500	6,700	Horizontal, half crane-neck, piston double.

*Fire-boat.

DESCRIPTION OF ENGINES—Continued.

Engines.	Built by	When Built.	Rebuilt by	When Rebuilt.	Size.	Cylinders. Diam.	Cylinders. Stroke.	Pumps Diam.	Pumps Stroke.	Boilers. Diam.	Boilers. Height	Gallons per Minute.	Weight as Drawn to Fires.	Style of Engine.
† A	Ives Bros.	1872	La France Co.	1885	3d	10	12	5 1/4	12	34	62	500	7,800	Single horizontal, straight frame.
† B	Poole & Hunt	1860	Clapp & Jones	1884	3d	10	12	5	12	32	60	400	7,500	Single vertical, " "
† C	Ives Bros.	1876			3d	10	12	5	12	30	62	400	7,500	Single horizontal, " "
† D	Ives Bros.	1874	Clapp & Jones	1884	3d	7	7	3 3/8	7	32	60	500	7,000	Double " " "
† E	Ives Bros.	1877			3d	10	12	5	12	32	60	400	7,500	Single " " "
† F	Ives Bros.	1875	La France Co.	1883	1st	8	10	4 1/2	10	38	62	900	9,400	Double vertical, crane-neck, piston.
† G	Silsby Manufacturing Co	1887			3d	Rotary pump.				34	60	600	6,700	Rotary, crane-neck.

†Reserve.

HOSE.

Companies.	Fabric Hose Received.	Fabric Hose Required.	Fabric Hose in Service.	Fabric Hose Condemned.	Gum Hose in Service.	Gum Hose Condemned.	Chemical Hose Received.	Chemical Hose Required.	Chemical Hose in Service.	Chemical Hose Condemned.
	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.
No. 1 Engine Co.	.....	400	3,550	300	50	.....	.....	50	200	.....
" 2 " "	.....	500	3,250	350	.....	.....	.....	100	150	.....
" 3 " "	.....	500	2,900	150	.....	.....	.....	50	200	.....
" 4 " "	.....	300	3,400	.....	.....	.....	.....	100	225	.....
" 5 " "	.....	500	2,850	250	.....	.....	.....	50	200	.....
" 6 " "	.....	400	3,100	.....	.....	.....	.....	50	200	.....
" 7 " "	.....	500	2,650	175	.....	.....	.....	100	200	.....
" 8 " "	.....	400	3,900	50	.....	.....	.....	100	200	.....
" 9 " "	.....	300	3,200	100	.....	.....	.....	50	200	.....
" 10 " "	.....	.....	3,900	50	.....	.....	200	50	200	.....
" 11 " "	.....	500	1,200	.....	650	300	.....	50	200	.....
" 12 " "	.....	1,200	1,250	.....	2,000	1,000	.....	50	200	.....
" 13 " "	.....	300	3,450	200	.....	.....	200	50	200	.....
" 14 " "	.....	600	3,300	450	.....	.....	200	50	200	.....
" 15 " "	.....	{ 500–2½ in. { 300–3 in.	{ 2,200–2½ in. { 1,400–3 in.	500	.....	.....	.....	100	200	.....
" 16 " "	.....	.....	1,450	.....	350–3 in.	100	200–1½ in.	.....	.....	175–1½ in.
" 17 " "	.....	500	300	.....	2,800	100	200	.....	.....	.....
" 18 " "	.....	500	3,300	100	.....	.....	250	.....	250	.....
" 19 " "	.....	.....	3,500	.....	.....	.....	200	.....	200	.....
" 20 " "	.....	.....	3,000	.....	.....	.....	.....	50	200	.....
" 21 " "	.....	500	2,950	.....	.....	.....	250	50	250	.....

HOSE.

Chemical Companies.	New Hose Received.	New Hose Required.	Hose in Service.	Hose Condemned.
	Feet.	Feet.	Feet.	Feet.
No. 1 Chemical Engine Company	.....	.....	300	.....
" 2 " " "	.....	.....	250	50
" 3 " " "	.....	.....	450	.....
" 4 " " "	.....	.....	400	.....
" 5 " " "	.....	100	250	50
" 6 " " "	.....	.....	300	.....
" 7 " " "	250	.....	250	.....

MANUAL FORCE OF THE DEPARTMENT.

OFFICERS.

Chief Engineer	1	
District Engineers	6	
Superintendent of Machinery	1	
Assistant Superintendent of Machinery	1	
		9

ENGINE COMPANIES.

No. 1 Engine Company	11	
" 2 " "	12	
" 3 " "	11	
" 4 " "	12	
" 5 " "	11	
" 6 " "	12	
" 7 " "	11	
" 8 " "	11	
" 9 " "	11	
" 10 " "	11	
" 11 " "	11	
" 12 " "	11	
" 13 " "	11	
" 14 " "	11	
" 15 " "	20	
" 16 " "	12	
" 17 " "	12	
" 18 " "	12	
" 19 " "	12	
" 20 " "	12	
" 21 " "	12	
		249

CHEMICAL ENGINE COMPANIES.

No. 1 Chemical Engine Company	3	
" 2 " " "	3	
" 3 " " "	3	
" 4 " " "	3	
" 5 " " "	3	
" 6 " " "	3	
" 7 " " "	4	
		22

HOOK AND LADDER COMPANIES.

No. 1 Hook and Ladder Company	11	
" 2 " " " "	11	
" 3 " " " "	12	
" 4 " " " "	12	
" 5 " " " "	12	
" 6 " " " "	12	
" 7 " " " "	1	
" 8 " " " "	1	
" 9 " " " "	1	
" 10 " " " "	12	
" 11 " " " "	12	
		97
Probationary firemen	20	
Total active membership of the department	397	
Disabled members pensioned	25	
Total membership		422

PENSION ROLL.

Name.	*Position at Time of Retirement.*	*Amount of Annual Pension.*
D. H. Macauley	Captain	$550 00
J. F. Peerce	Hostler	450 00
W. G. Miller	Captain	400 00
J. R. Battee	Callman	400 00
G. H. Little	Pipeman	400 00
John Wernsing	Hostler	400 00
William Gordon	Callman	400 00
G. W. Ellender	District Engineer	400 00
W. M. Dunn	District Engineer	400 00
H. E. Curry	Ladderman	400 00
J. J. McGraw	Pipeman	400 00
J. T. Elliott	Ladderman	400 00
O. D. Burgess	Callman	400 00
J. H. Gildea	Callman	400 00
W. R. LaShorn	Pipeman	400 00
J. O. Healey	Pipeman	400 00
L. Pistel	Callman	400 00
J. H. Hayward	Captain	400 00
R. M. Brown	Ladderman	400 00
J. W. Blake	Tillerman	400 00
Jacob Hindes	Captain	400 00
B. T. Wirts	Callman	400 00
T. S. Rodenhi	Callman	400 00
T. H. Humphreys	Engineman	400 00
W. R. Ward	Captain	400 00

SALARIES OF OFFICERS AND MEMBERS.

		Per Annum.
1	Chief of Department	$2,000 00
6	District Engineers, each	1,400 00
1	Superintendent of Machinery	1,400 00
	Assistant Superintendent of Machinery	1,200 00
29	Captains of engine and hook and ladder companies, each	1,100 00
30	Lieutenants of engine and hook and ladder companies, each	1,000 00
21	Enginemen, each	1,100 00
23	Assistant enginemen, each	900 00
16	Tillermen of hook and ladder companies, each	900 00
28	Hostlers of engine and hook and ladder companies, each.	900 00
7	Captains of chemical engine companies, each	900 00
10	Hostlers of chemical engine and Annex hook and ladder companies, each	800 00
145	Pipemen, each	800 00
54	Laddermen, each	800 00
2	Pilots on fire-boat, each	1,000 00
3	Stokers on fire-boat, each	800 00
20	Probationary firemen, each	500 00
397	Officers and Members.	

NUMBER OF BOXES TO WHICH COMPANIES RESPOND.

Companies.	First Alarm.	Second Alarm.	Third Alarm.	Total.
No. 1 Engine Company	69	170	67	306
" 2 " "	84	62	95	241
" 3 " "	67	83	55	205
" 4 " "	104	118	93	315
" 5 " "	73	43	50	176
" 6 " "	68	121	59	248
" 7 " "	80	128	87	295
" 8 " "	90	80	72	242
" 9 " "	105	36	16	157
" 10 " "	66	87	73	226
" 11 " "	51	31	12	104
" 12 " "	37	21	29	87
" 13 " "	75	59	49	183
" 14 " "	63	21	18	102
" 15 " "	120	129	66	315
" 16 " "	47	8	.....	55
" 17 " "	22	11	21	54
" 18 " "	60	28	28	116
" 19 " "	45	35	9	89
" 20 " "	21	13	18	52
" 21 " "	11	1	.....	12
Water Tower	32	72	1	105
No. 1 Hook and Ladder Company	59	78	43	180
" 2 " " " "	118	109	51	278
" 3 " " " "	79	33	19	131
" 4 " " " "	49	109	84	242
" 5 " " " "	118	6	3	127
" 6 " " " "	56	35	2	93
" 7 " " " "	15	.....	.....	15
" 8 " " " "	23	4	.....	27
" 9 " " " "	11	.....	.....	11
" 10 " " " "	56	32	18	106
" 11 " " " "	31	8	.....	39
No. 1 Chemical Engine Company	24	14	.....	38
" 2 " " "	37	41	.....	78
" 3 " " "	14	.....	.....	14
" 4 " " "	25	13	.....	38
" 5 " " "	25	13	.....	38
" 6 " " "	26	19	.....	45
" 7 " " "	11	....	.....	11

SERVICE OF COMPANIES AT FIRES.

Engine Companies.	Responded.	Transferred.	Feet of hose laid.	Tanks used.	Extingnishers used.	Working time of engines.		Time away from quarters.	
						Hours.	Min.	Hours.	Min.
No. 1 Engine Company	182	..	41,850	57	2	106	50	218	..
" 2 " "	190	..	37,900	70	..	93	30	262	45
" 3 " "	223	..	20,050	89	..	52	45	151	30
" 4 " "	172	..	23,300	67	..	49	35	118	26
" 5 " "	220	21	12,250	38	..	44	15	159	50
" 6 " "	235	4	19,850	79	4	33	45	152	..
" 7 " "	200	3	34,500	75	..	41	30	214	15
" 8 " "	231	9	17,150	60	..	53	..	171	..
" 9 " "	301	24	15,700	55	2	38	15	270	35
" 10 " "	174	1	24,200	8	..	88	30	280	40
" 11 " "	162	27	14,600	6	18	69	30	126	35
" 12 " "	102	40	14,650	31	6	48	30	160	30
" 13 " "	167	25	14,350	1	63	16	15	145	15
" 14 " "	123	..	19,100	..	52	30	22	104	15
" 15 " "	194	..	31,550	64	..	118	15	191	45
" 15 " " (2d section).	7	..	1,950	..	4	3	20	7	18
" 16 " " (fire-boat)..	114	..	3,850	..	..	29	..	84	15
" 17 " "	42	49	12,600	..	32	30	..	150	..
" 18 " "	107	14	15,800	3	15	26	..	125	15
" 19 " "	103	27	15,350	..	42	33	50	106	10
" 20 " "	23	8	7,200	36	..	20	40	86	..
" 21 " "	31	..	9,050	13	..	17	30	59	30
Water Tower	89	..	.....	..	..	..	..	..	..

SERVICE OF COMPANIES AT FIRES.

Hook and Ladder Companies.	Responded to.	Transferred.	Extinguishers used.	Ladders used.	Working time. Hours.	Min.
No. 1 Hook and Ladder Company	150	28	40	257	215	45
" 2 " " " "	165	25	16	244	200	.....
" 3 " " " "	240	19	67	235	181	15
" 4 " " " "	120	51	25	165	253	45
" 5 " " " "	127	45	61	200	235	36
" 6 " " " "	156	9	63	260	232	.....
" 7 " " " "	9	....	9	10	19	57
" 8 " " " "	45	....	19	33	56	30
" 9 " " " "	31	....	12	36	40	.....
" 10 " " " "	128	77	37	111	321	55
" 11 " " " "	17	1	2	18	25	.....

Chemical Engines.	Responded to.	Transferred.	Tanks used.	Time away from quarters. Hours.	Min.
No. 1 Chemical Engine Company	46	....	29	58	20
" 2 " " "	80	....	28	66	25
" 3 " " "	76	1	20	51	15
" 4 " " "	43	....	14	28	23
" 5 " " "	30	....	18	24	40
" 6 " " "	50	....	34	49	30
" 7 " " "	31	....	6	40	.....

SECOND, THIRD AND GENERAL ALARMS OF FIRE DURING 1898.

Box.	Location.	Date.	Alarm.	Alarm.	Alarm.
318	Charles and Barnet streets	January 11	Second		
123	Pratt and Gay streets	January 26	Second		
431	Pratt street and Fremont avenue	February 17	Second		
123	Pratt and Gay streets	February 17	Second		
431	Pratt street and Fremont avenue	March 3	Second		
527	Howard and Dover streets	March 11			General
631	Hanover and Ostend streets	March 12			General
233	Monument and Patuxent streets	March 20			General
153	Caroline and Thames streets	March 24			General
341	Biddle and St. Paul streets	April 7	Second		
499	Lipp's Soap Factory	May 3	Second		
14	No. 3 Engine House, Lombard street	May 10		Third	
521	Charles and Camden streets	May 15			General
136	Union Dock, Foot of Concord street	May 17			General
336	Howard and Mulberry streets	May 27	Second		
467	Frederick and Augusta avenues	May 29	Second		
336	Howard and Mulberry streets	June 9	Second		
72	Guilford and Huntingdon avenues	June 28	Second		
485	Frederick avenue and B. & P. R. R	July 12	Second		
393	Cedar avenue and Wood street	August 26	Second		
42	No. 1 Engine House, Paca street	August 26		Third	
437	Pratt and Greene streets	September 6	Second		
518	Bayard and Warner streets	September 9		Third	
525	Hanover and Pratt streets	November 16	Second		
5	German and Light streets	December 22	Second		

TABLE SHOWING THE NUMBER OF FIRES FOR EACH DAY OF THE WEEK IN 1898.

Day.	*Number of Fires.*
Sunday	209
Monday	209
Tuesday	177
Wednesday	191
Thursday	184
Friday	197
Saturday	206
	1,373

TABLE SHOWING THE NUMBER OF FIRES FOR THE HOURS OF THE DAY DURING 1898.

A.M.		P.M.	
Between		Between	
12 and 1 o'clock	45	12 and 1 o'clock	59
1 " 2 "	40	1 " 2 "	62
2 " 3 "	25	2 " 3 "	61
3 " 4 "	25	3 " 4 "	60
4 " 5 "	21	4 " 5 "	77
5 " 6 "	17	5 " 6 "	96
6 " 7 "	37	6 " 7 "	99
7 " 8 "	36	7 " 8 "	89
8 " 9 "	44	8 " 9 "	100
9 " 10 "	51	9 " 10 "	89
10 " 11 "	59	10 " 11 "	53
11 " 12 "	81	11 " 12 "	47
	481		892

SUMMARY OF FIRES FOR 1898.

	District 1.	District 2.	District 3.	District 4.	District 5.	District 6.	Total Box.	Silent.	City.	Annex.	Total.
January	11	21	12	14	14	10	82	55	119	18	137
February	21	16	5	22	9	10	83	45	124	4	128
March	18	13	7	17	8	8	71	40	97	14	111
April	10	16	13	6	12	9	66	36	89	13	102
May	13	13	6	13	9	9	63	20	77	6	83
June	19	17	8	22	6	11	83	40	110	13	123
July	16	31	13	16	12	11	99	40	117	22	139
August	12	19	10	13	9	7	70	22	79	13	92
September	16	13	4	13	9	4	59	26	79	6	85
October	20	19	9	18	15	10	91	29	106	14	120
November	14	11	13	15	6	7	66	38	91	13	104
December	17	21	13	17	11	8	87	62	135	14	149
	187	210	113	186	120	104	920	453	1,223	150	1,373

NUMBER OF FIRES AND LOSSES EACH YEAR SINCE THE ORGANIZATION OF THE PAID FIRE DEPARTMENT.

Year.	*Number of Fires.*	*Losses.*
1859	98	$350,000 00
1860	112	310,000 00
1861	115	60,000 00
1862	130	83,000 00
1863	138	120,482 33
1864	143	163,528 49
1865	163	71,358 90
1866	178	181,115 00
1867	193	293,045 00
1868	145	76,244 75
1869	187	398,259 09
1870	203	432,717 07
1871	226	475,391 00
1872	245	300,000 00
1873	265	892,628 58
1874	384	506,826 15
1875	348	608,351 30
1876	332	563,248 78
1877	420	438,715 57
1878	371	162,312 78
1879	306	192,654 54
1880	343	580,290 09
1881	324	454,773 35
1882	358	330,113 84
1883	399	561,520 00
1884	388	617,871 79
1885	474	441,743 06
1886	430	896,527 12
1887	496	1,162,359 26
1888	602	1,272,478 82
1889	545	477,329 07
1890	594	441,152 65
1891	676	650,009 73
1892	795	839,435 77
1893	829	1,153,129 76
1894	831	542,188 29
1895	816	730,751 11
1896	985	423,062 79
1897	1,110	572,497 39
1898	1,373. (approximate).	878,592 46
The total loss by fires in 40 years has been		$19,705,704 78

TABLE SHOWING THE DIFFERENT CAUSES OF FIRES AND ALARMS.

Accidentally transmitted	3
Arch of oven caving in	1
Acid from broken carboy	1
Asphaltum ignited by heat of stove	1
Back draft	6
Badly constructed hearth	4
Benzine ignited by friction	1
Benzine ignited while cleaning clothing	1
Blowing out of fuse	1
Boiling over of a pot of tar	3
Board ignited by hot stove	1
Boiling over of a pan of grease	2
Boiling over of water ignited oil	1
Boiling over of hot oil	1
Bottle of turpentine falling on stove	1
Box ignited by lighted candle	1
Box pulled for preceding fire	6
Box pulled for fire in Baltimore County	1
Boys playing with fire	2
Bonfire	1
Building fire in boat's galley	1
Burning chimney	41
Burning clothing ignites carpet	1
Burning grease on candle stick	1
Burning brush	4
Burning oil around lamp	1
Burning paper in yard	1
Burning paper in cellar	1
Burning rubbish	2
Burning shavings in yard	1
Burning waste paper in furnace	2
Burning out of electric light	1
Burning of water back	1
Carelessness	10
Careless handling of matches	9
Ceiling falling down	1
Childs' clothing ignited by hot stove	2
Children playing with lighted candle	1
Children playing with matches	46
Children playing with fire	2
Cleaning clothing with gasoline	1
Closed damper in stove	1
Clothing ignited by lighted match	2
Clothing ignited by gasoline stove	2
Clothing ignited by lighted candle	4
Clothing ignited by lighted lamp	1
Clothing ignited by hot stove	1
Coal-oil stove exploded	20
Coal-oil lamp falling on floor	2
Coal-oil heater ignited carpet	1

Coal-oil heater falling to pieces	1
Coals dropping from grate	1
Coals dropping from furnace	1
Collision of locomotives	1
Crossed wires	2
Curtain ignited by gasoline stove	1
Curtain ignited by coal oil lamp	1
Curtain ignited by lighted match	1
Curtain ignited by lighted candle	2
Curtain ignited by lighted gas jet	21
Defective chimney	4
Defective oil stove	2
Defective flue	48
Defective flue board	1
Defective furnace	1
Defective hearth	4
Defective insulation	1
Defective wiring of pole	1
Defective stove	1
Door frame ignited by lighted cigar	1
Drawing fire from furnace on coal	1
Dropping lighted match	1
Dropping a coal oil lamp	1
Drying wood in stove	1
Electric converter	4
Electric controller	2
Electric lights	2
Electric wire	27
Explosion of a can of coal oil	1
Explosion of a bottle of gasoline	1
Explosion of a can of gasoline	9
Explosion of coal-oil lamp	35
Explosion of gas	3
Explosion of gasoline lamp	2
Explosion of gasoline	2
Explosion of gas holder	1
Explosion of powder	1
Explosion of gasoline stoves	88
Explosion of gasoline tank	1
Explosion of gasoline torch	1
Explosion of vapor from gasoline	2
Explosion of gas meter	1
Explosion of oils and varnish	1
Excessive heat	1
Escaping gas ignited by lighted match	1
False alarm (various causes)	75
Fireworks	17
Filling lighted gasoline stove	5
Flames from gasoline stove	5
Flames igniting gasoline	1
Flames from stove	2
Friction of belt	1
Friction of machinery	1
Friction of matches	2
Fumigating dwelling	3

Gas jet igniting decorations	1
Gas jet igniting ceiling	1
Gas jet igniting drapery	1
Gas jet igniting goods	3
Gas jet igniting joists	1
Gas jet igniting lambrequin	1
Gas jet igniting portiers	1
Gas jet igniting paper	1
Gas jet igniting stationery	1
Gas jet igniting woodwork	2
Gasoline ignited while drawing	3
Gasoline ignited while filling stove	1
Gasoline ignited by lantern	1
Gasoline ignited by lighted lamp	2
Gasoline ignited by lighted match	6
Gasoline igniting from fire	2
Gasoline barrel ignited while cleaning	1
Gasoline set on fire by boys	1
Gas ignited by lighted match	1
Gas hose igniting burlap	1
Grease boiling over	4
Heat from ash-pan	1
Heat from boiler	3
Heat from castings	1
Heat from coal-oil stove	1
Heat from furnace	2
Heat from fire	1
Heat from incandescent light	1
Heat from gasoline stove	2
Heat from lamp	2
Heat from range	1
Heat from radiator	1
Heat from stove	9
Heat from stack	2
Heat from stove igniting gasoline	1
Heat from stove igniting clothing	2
Heat from stove igniting coal oil	1
Hot ashes	8
Hot cinders from forge	1
Hot coals from furnace	1
Hot soot dropping from chimney	1
Hot tar boiling over	1
House filled with smoke	1
Illuminating toy house igniting Christmas tree	1
Incendiary	7
Lambrequin ignited by coal-oil lamp	1
Lamp ignited mosquito net	1
Leaking coal-oil lamp	1
Leaking coal-oil stove	6
Leaking gasoline stove	16
Leaking gas pipe	4
Leaking gasoline tank	4
Leaking gasoline can	1
Lighted candle igniting couch	1
Lighted candle igniting Christmas tree	10

Lighted candle igniting gasoline	3
Lighted candle igniting lounge	2
Lighted candle igniting bags	1
Lighted candle igniting designs	1
Lighted candle igniting rags	1
Lighted candle igniting straw	1
Lighted cigar igniting clothing	1
Lighted match thrown out of window	1
Lighted match thrown under stairway	1
Lighted match igniting coal oil	1
Lighted match igniting gasoline	1
Lighted match igniting drapery	1
Lighted match igniting straw	1
Lighted match igniting lounge	5
Lighted match igniting portiers	1
Lighted match igniting curtains	1
Lighted match igniting goods	1
Lighted match igniting bed	1
Lighted match igniting paper	1
Lighted match thrown among rags	1
Lighted match thrown on floor	2
Lightning	2
Meat catching fire on stove	2
Mice or rats gnawing matches	12
Overheated boiler	1
Overheated current	1
Overheated coal-oil lamp	2
Overheated cupola	1
Overheated coal-oil stove	7
Overheated fire-place	1
Overheated oven	6
Overheated kiln	2
Overheated steam pipe	1
Overheated stove or furnace	47
Overheated stove or furnace pipe	14
Overheated tar pot	1
Overflow of gasoline tanks	5
Overflow of coal-oil stove	5
Panic in school	1
Pan of fat boiling over	5
Pouring gasoline in stove	1
Purposely set on fire	2
Rekindling of previous fires	4
Set on fire by boys	8
Sea grass ignited by gasoline lamp	1
Smoking coal-oil stove	2
Smoke blowing over roof	2
Smoke from chimney	1
Smoke from furnace	1
Smoke through partition	1
Smoke from stove	1
Smoke from window	1
Smoking pipe	1
Smoking pipe in bed	2
Smoke from open grate	1

Smoke pipe placed in false chimney	1
Sparks from chimney	24
Sparks from engine	1
Sparks from electric converter	1
Sparks from emery wheel	1
Sparks from furnace	2
Sparks from fire	1
Sparks from kiln	1
Sparks from locomotive	5
Sparks from open grate	2
Sparks from pipe	1
Sparks from stove	3
Sparks from smoke house	1
Sparks from stack	5
Sparks from electric wire	1
Sparks falling in shavings	1
Storm (wind)	1
Spontaneous combustion	17
Supposed incendiary	9
Supposed spontaneous combustion	9
Switch board	1
Table cover ignited from curling iron	1
Table cover ignited by lighted match	1
Throwing lighted match on dress	1
Tinner's fire pot	2
Tip blown out of gas jet	1
Too much wood being used	1
Toy match pistol	1
Towel ignited by lighted match	1
Treading on match	2
Unknown	330
Upsetting coal-oil lamp	14
Upsetting can of gasoline	1
Upsetting coal-oil stove	5
Upsetting cook stove	5
Upsetting lighted candle	5
Vapor from alcohol ignited by gas jet	1
Vapor from gasoline tank	1
Vapor of gasoline ignited by heat of stove	2
Waste ignited by lighted match	1
Wood lying on heat box of furnace	1
Total	1,373

NOTABLE FIRES DURING THE YEAR.

January 9th—Box 416.—Nos. 504 to 508 W. German street, three-story brick building, occupied as a storage warehouse, owned by Wesley M. Oler. The fire originated on the second-floor, damaging the stock of straw hats, card-board, etc. The alarm was received at 6.03 p.m., and the recall signal at 8.41 p.m. The services of four engine companies and two hook and ladder companies were required. The cause of the fire unknown. Loss $6,042.54.

January 11th—Box 318.—No. 210 N. Charles street, three-story brick building, occupied by Gibson, Glaser & Co., as a musical instrument store. The fire did partial damage to the interior woodwork and stock, consisting of musical instruments, etc., extending to the adjoining property, No. 212 N. Charles street, occupied by Messrs. Clarke & Stevens, dealers in laces and linens, partially destroying woodwork. The first alarm was received at 8.36 p.m., the second alarm at 8.52 p.m., and the recall signal at 12.03 a.m. The services of nine engine companies and four hook and ladder companies were required. Cause of fire unknown. Loss $22,636.40.

February 1st—Box 121.—No. 121 South street, four-story brick building, occupied by Joseph Johnson, manufacturer of fishing tackle, nets, hammocks, etc.; partial burning of stock, interior woodwork and roof. The services of five engine companies and two hook and ladder companies were required. The first alarm was received at 6.19 a.m., and the recall signal at 10.45 a.m. Cause of fire, supposed spontaneous combustion. Loss $10,835.87.

February 17th—Box 65.—Nos. 1913 and 1915 S. Charles street, one-story brick building, occupied by P. Kennedy as an iron foundry, burning patterns, flasks, etc. The alarm was received at 12.32 a.m., and the recall signal at 3.25 a.m. The services of four engine companies and one hook and ladder company were required. Cause of fire unknown. Loss $9,732.44.

March 11th—(Box 869, Automatic,) Box 527.—Nos. 303 and 305 King street, occupied by Frederick Bergner. Partial burning

of the three-story brick building and contents, consisting of moulding and light material used in the manufacture of albums and picture frames. The first alarm was received at 12.46 a.m., from automatic box 869, and from city box at 12.52 a.m., the second alarm at 12.58, and the recall signal at 8.33 a.m. The services of eight engine companies and four hook and ladder companies were required. Cause, woodwork taking fire from an overheated boiler. Loss $5,959.

March 12th—Box 631.—A five-story brick building, west side of Raw street, extending from Clement to Ostend streets, occupied by Keen, Hagerty & Co., as a tinware factory. Partial burning of the third, fourth and fifth floors, and contents, consisting of tinware, etc. The first alarm was received at 4.52 a.m., and the the four twos (2222) at 4.59 a.m., and the recall signal at 2.14 p.m. The services of eleven engine companies and three hook and ladder companies were required. The cause of the fire unknown. Loss $120,567.50.

March 20th—Box 233.—Burning of frame sheds, lumber, stables, frames and nine horses, fencing, etc., in the lumber yard, Nos. 625 to 629 Milton avenue, occupied by August Hamerman, extending and partially burning frame sheds and out-buildings of seven two-story brick dwellings from No. 613 Port street, occupied by William Sherer and others, and partial burning of frame out-houses and fences of the six two-story brick dwellings from No. 2431 East Monument street, occupied by John Haverling and others. The first alarm was received at 4.54 a.m., the second alarm at 5.02 a.m., the four twos (2222) at 5.03 a.m., and the recall signal at 10.15 a.m. The services of seven engine companies, three hook and ladder companies and one chemical engine company were required. The cause of the fire unknown. Loss $11,014.73.

March 24th—Box 153.—Nos. 613, 615 and 617 South Caroline street, three-story brick building, occupied by George Woelfel as a furniture factory. The fire originated on the second floor, and partially destroyed the stock and building on the first and second floors. The first alarm was received at 2.50 a.m., and the four twos (2222) at 2.55 a.m., and the recall signal at 7.55 a.m. The services

of ten engine companies and three hook and ladder companies were required. The cause of fire, supposed spontaneous combustion. Loss $6,846.78.

April 7th—Box 341.—No. 1214 St. Paul street, occupied by Charles K. Lord. The building was four-story brick. The fire originated from a defective hearth on the first floor, extending to and partially burning the interior woodwork, ceiling and furniture on the first, second and third floors; extending to and partially burning roof of a three-story brick and mansard dwelling, No. 1216 St. Paul street, occupied by Alexander Gordon. The first alarm was received at 1.25 a.m., the second alarm at 2.15 a.m., and the recall signal at 5.47 a.m. The services of three engine companies, two hook and ladder companies, and one chemical engine were required. Loss $17,183.36.

May 3rd—Box 499.—Three-story brick building, Hollins street, near Calverton road, occupied by Christopher Lipp, as a soap factory. The fire originated on the third floor, from an unknown cause, entirely destroying the contents, consisting of soap, etc. The roof was partially burned. The first alarm was received at 12.42 p.m., the second alarm at 1.10 p.m., and the recall signal at 5.28 p.m. The services of five engine companies, three hook and ladder companies and one chemical engine company were required. Loss $19,345.47.

May 10th—Box 14.—Nos. 819 and 821 Granby street, the four-story brick building, occupied by Peter Lineweaver & Co., as a can factory. The fire originated from an unknown cause, burning stock, machinery, interior woodwork and roof. The first alarm was received at 6.53 a.m., the second at 6.59, the third at 7.06 and the recall signal at 11.26 p.m. The services of eleven engine companies and four hook and ladder companies were required. Loss $9,500.51.

May 15th—Box 521.—Nos. 13, 15, 17 and 19 E. Camden street, a four-story double brick building, occupied by the National Biscuit Company, D. W. Laus, manager. The fire extended from the second floor, the place of origin, to the third and fourth floors, partially burning the contents, consisting of crackers and cakes, and partially burning the interior woodwork and roof,

extending to and partially burning the roof of four-story brick building No. 11 E. Camden street, occupied by R. S. Gordon & Co. as a warehouse and commission merchant's office. The first alarm was received at 11.47 p.m., the four twos (2222) at 11.51 p.m., and the recall signal at 6.04 a.m., May 16. The services of thirteen engine companies and four hook and ladder companies were required. Cause of fire, an overheated bake-oven. Loss $33,147.14.

May 17th—Box 136.—Wharf foot of Union Dock, occupied by the Baltimore Steam Packet Company. The fire originated among a lot of cotton under the sheds, extended and burned sheds and contents, consisting of cotton, turpentine, canned goods, clothing, etc., also partial burning of a two-and-a-half-story brick office, extending to and partially burning of a barge loaded with cotton. The first alarm was received at 12.57 p.m., the four twos (2222) at 1.07 p.m., and the recall signal at 5.57 a.m., May 19. The services of fourteen engine companies and five hook and ladder companies were required. Cause, supposed spontaneous combustion. Loss $89,889.52.

May 29th—Box 467.—The two two-story brick car barns located on the Frederick road, occupied by the Consolidated Railway Company. The fire originated in the rear of the east barn, extended through and totally destroyed both barns and contents, consisting of 130 cars, varnish, oils, etc., extending to and partially burning the fences and outbuildings in the rear of the four two-story frame dwellings from No. 27 Loudon avenue, occupied by Mrs. Catherine Elliott and others. The first alarm was received at 5.47 p.m., the second at 5.56 p.m., and the recall signal at 5.06 a.m., May 30. The services of three engine companies, two hook and ladder companies, and one chemical engine were required. Cause of fire unknown. Loss $254,783.76.

July 27th—Box 525.—No. 107 Hanover street, a six-story brick building occupied by D. Levi & Co. as a ladies' waist manufactory, partial burning of interior woodwork and stock. The first alarm was received at 4.38 a.m., and the recall signal at 7.34 a.m. The services of three engine companies and two hook and ladder companies were required. The cause of the fire unknown. Loss $12,442.84.

August 26th—Box 393.—A four-story stone flour mill, located on the Falls road, occupied by D. C. Timanus. The fire originated from an unknown cause, destroying the contents, consisting of flour and grain, and partially burning the building. The first alarm was received at 1.18 a.m., the second at 1.31 a.m., and the recall signal at 8.38 a.m. The services of two engine companies and one hook and ladder company were required. Loss $7,238.10.

August 26th—Box 42.—Nos. 12 and 14 North Paca street, a four-story brick building, occupied by Miller & Miller as a pork-packing establishment. The fire, originating from an unknown cause, partially destroyed the rear buildings, stock, consisting of hams and smoked meats, together with several horses. The first alarm was received at 4.41 a.m., the second at 4.44 a.m., the third at 4.51 a.m., and the recall signal at 9.25 a.m. The services of nine engine companies and four hook and ladder companies were required. Loss $19,474.13.

September 11th—Box 414.—No. 303 West Baltimore street, a four-story and basement brick building, occupied by Joseph Schenthal & Co., manufacturers of overalls, drawers, etc. The fire originated from an unknown cause, partially destroying stock and interior woodwork. The first alarm was received at 12.56 a.m., and the recall signal at 3.45 a.m. The services of four engine companies and two hook and ladder companies were required. Loss $13,168.08.

December 22—Box 5.—No. 14 Light street, a five-story brick building, occupied by E. Packham & Co. as manufacturers of fancy flasks, corks, etc. The fire originated in the cellar and extended by the way of the elevator shaft very rapidly through the building to the roof, destroying the stock and interior woodwork. The first alarm was received at 11.02 a.m., the second alarm at 11.11 a.m., and the recall signal at 4.20 p.m. The services of nine engine companies and four hook and ladder companies were required. The cause of the fire an explosion of gas. Loss could not be ascertained.

FIRES WHICH WERE ATTENDED BY LOSS OF LIFE.

1898.

January 3rd—Box 241, 7.02 p.m.—Mrs. Mary Chase, No. 803 Hillen street, fatally burned about the body and face. Cause, explosion of gasoline stove.

January 22d—(Special).—Carrie Lotz, aged six years, No. 2111 McElderry street, fatally burned about the body. Cause, her clothing igniting from stove.

February 1st—Box 636, 9.13 a.m.—Mrs. Mary Lent, aged seventy years, No. 1220 Hull street, died from effects of burns received. Cause, her clothing igniting from stove.

March 15th—Box 146, 9.44 a.m.—Michael Serwinskri, of No. 202 Albemarle street, (garment worker,) occupying the fourth floor became excited and leaped to the ground, killing himself instantly. Cause, explosion of gasoline stove.

March 30th—(Special), 8.45 a.m.—Lawrence Douglass, aged five years, No. 811 N. Dallas street, fatally burned about the body. Cause, the clothing of the child igniting from stove.

June 6th—Box 366, 4.11 p.m.—Mrs. Burns, No. 529 Laurens street, fatally burned about body. Cause, filling a gasoline stove while same was burning.

June 20th—Silent, 5.50 a.m.—Myrtle Kramer, aged five years, No. 2520 Salem street, suffocated by smoke. Cause, explosion of gasoline stove.

July 25th—Box 38, 4.22 a.m.—Mrs. Lena Buck, No. 1526 N. Fremont avenue, fatally burned about body and limbs. Cause, her clothing igniting from gasoline stove.

August 27th—Box 34, 1.17 a.m.—Charles Seroch, suffocated by smoke while asleep in the loft of a two-story brick stable, No. 1016 Morton alley. Occurred before the arrival of the department.

September 18th—Box 394, 10.35 a.m.—Mrs. Amita Bounds, No. 284 Hickory avenue, fatally burned about the body. Cause, her clothing igniting from gasoline stove.

December 14th—Box 368, 2.18 p.m.—Two children of William Foster—Eddie, aged two years, and Maria, aged ten months—were suffocated by smoke in the front room of the two-story brick dwelling, No. 730 Sarah Ann street. Cause, overturning of stove.

LOSS OF LIFE—SPECIAL.

Saturday, December 17th—Time of alarm, 9.30 a.m.—Mrs. Sarah Pfeltz, No. 118 Jackson Place, aged seventy-five years, fatally burned. Cause, supposed her clothing ignited from stove.

FIRES AT WHICH RESCUES WERE MADE.

February 2d—Box 48.—2203 W. Pratt street, two-and-a-half-story brick, 8.59 p.m. Mrs. Barbara Boehmn, who was sick in bed, was rescued from the second front-story window, by means of a ladder, by Captain Edward W. Steinacker, of No. 1 Chemical Company, assisted by Lieutenant W. C. D. Knight, Engine Company No. 14.

March 9th—Silent.—Three-story brick shoe store and dwelling, 2.05 a.m. Mrs. Catherine Glantz, residing at 1020 Hillen street, being cut off from stairway by smoke, was rescued from the second-story front window, by means of a ladder, by Captain Charles Betz, of Engine Company No. 6.

March 12th—Box 631.—Six-story brick building, occupied by Keen & Hagerty, as tinware factory, 4.52 a.m. James Bratten, watchman, whose escape was cut off from stairway, was rescued from a window on the fifth floor, by means of ladders, by Lieutenant F. A. Teal and members of No. 6 Hook and Ladder Company. The rescue was effected at great personal risk to Lieutenant Teal, whose bravery was duly recognized, he being presented with the Merchants' Medal, and his name being inscribed on the Roll of Honor of the department.

October 29th—Box 453.—1605 W. Lanvale street, three-story brick dwelling, 2.10 a.m. Mrs. Harry Fuss and daughter, Miss Bessie Fuss, were rescued, by means of ladders, from the third floor, by Captain Malcolm W. Jordan and Lieutenant Henry Kabernagel, of No. 10 Hook and Ladder Company. The escape of the occupants was cut off from stairway by the dense smoke and severe heat. Mr. Harry Fuss also made his escape by means of the ladder.

December 15th—Box 445.—796 W. Saratoga street, three-story building, 12.22 a.m. Mrs. Annie Rachensperler, Miss Maggie

Rachensperler and Joseph Rachensperler were rescued by means of ladders from the third-story window, by Captain William J. Stewart, Lieutenant John Cook and Pipeman James McGee, of Engine Company No. 8, passing them to Pipeman Albert Schyne, of Engine Company No. 13, who took them to the pavement from the second-story, thence to a place of safety. The occupants of the building were cut off from the stairway by dense smoke.

Wednesday, December 20th—Box 462.—The two children of Henry Proeschel, residing at 1904 W. Lombard street, were rescued by Pipeman Leonard Jessop, of Engine Company No. 14, from a room on the third floor in which an explosion of a gasoline stove had taken place.

Sunday, December 25th—Silent.—William Gross, aged nine years, was rescued from the second-story front room by Pipeman Thomas W. Jessop, of Engine Company No. 8, by means of a ladder placed at window of the two-story brick dwelling, No. 1023 Harmony lane. The escape of the occupant had been cut off by smoke.

Company.	Position.	Name.	Date of Injury.	Box.	Time off Duty.	Nature of Injury.
	Chief Eng'r.	W. C. McAfee.....	January 18..	418	16 days.	Left knee lacerated and contusions of body.
	Dist. Chief .	L. H. Burkhardt..	May 17.....	136	78 days.	Concussion of the brain.
No. 1 Engine.....	Pipeman....	Albert Oelmann...	May 28.....	413	2 days..	Right ankle sprained.
" 2 "	"	William H. Bell...	March 11 ...	527	6 days..	Right hand cut.
" 2 "	Lieutenant .	George C. Young..	March 11 ...	527	.....	Right hand cut.
" 2 "	Pipeman	William Kimball..	July 9.....	514	6 days..	Arms burned.
" 2 "	" ...	Edward Tauber...	December 31	543	.....	Right hand burned.
" 3 "	Engineman .	Wm. T. Hubbard..	May 17	136	26½ days	Compound fracture of finger.
" 4 "	"	Herbert W. Peerce	September19	In quarters.	9 days..	Fingers lacerated.
" 4 "	Hostler.....	Israel D. Appleby..	February 10.	"	5½ days.	Kicked on left hip by a horse.
" 4 "	Pipeman	F. C. H. Berger...	February 17.	123	26 days.	Face burned and contusions of the body.
" 5 "	Engineman .	Fred'k L. Nelson..	June 21.....	235	14 days.	Fingers lacerated.
" 6 "	Lieutenant .	Lawrence Blake ..	May 30.. ...	213	5 days..	Contusions of left foot.
" 6 "	Pipeman	Gustave Miller....	May 2	In quarters.	7¾ days	Right ankle sprained.
" 7 "	"	Jas. T. Braden....	July 19.....	327	Died....	Internal injuries causing death.
" 7 "	"	John Weinkamp..	July 19.....	327	8 days..	Contusions of the body and arms.
" 7 "	"	Chas. T. Soistmann	July 19.....	327	Still off.	Compound fracture of right leg and contusions of body.
" 8 "	"	Thos. W. Jessop ..	March 3	431	3¼ days.	Contusions of head and neck.
" 8 "	"	Charles Airey.....	June 9.....	499	5 days..	Face cut by barbed wire.
" 9 "	Lieutenant..	Solomon Uhlfelder	August 6....	23	54 days.	Contusion of feet.
" 9 "	Pipeman	Albert Raine.. ...	December 10	185	5 days..	Abscess on finger from a cut.
" 10 "	Hostler.....	James T. Higdon .	August 2....	514	8 days..	Left wrist sprained.
" 12 "	Pipeman	John F. Moran....	November 13	In quarters.	12½ days	Right hand lacerated.
" 13 "	Hostler.....	John F. Mackenzie	February 13.	"	3¾ days.	Bruised ankle.

CASUALTIES.—Continued.

Company.	Position.	Name.	Date of Injury.	Box.	Time off Duty.	Nature of Injury.
No. 13 Engine.....	Probationer.	Milton Quigley...	January 7...	129	9½ days.	Scalp wound.
" 13 "	Substitute ..	Frederick Hedrick	February 16.	36	21 days.	Right leg cut.
" 15 "	Captain	John Todd.....	March 11...	527	35 days.	Right ankle cut.
" 15 "	Lieutenant .	James A. Campbell	September 6.	137	12½ days	Face and hands burned.
" 15 "	Pipeman	Charles L. Schulte	September 11	In quarters.	23½ days	Toe on right foot broken.
" 15 "	"	John A. Henneman	April 8.....	54	49½ days	Contusion of muscles of back.
" 15 "	Probationer.	Chas. L. Francke.	August 27...	Laurel, Md.	Died....	Skull crushed by being run over by steamer.
" 15 "	Substitute ..	Charles T. Taylor.	March 5.....	117	11 days	Toe on right foot fractured.
" 18 "	Pipeman	Thos. H. Sutton...	May 13.....	In quarters.	11½ days	Contusion of left knee.
" 18 "	"	Jos. J. Presley....	August 28...	"	50 days	Fracture of small bone in right foot.
" 18 "	Hostler.....	John W. Potts...	October 1...	"	18 days.	Sprained back.
" 18 "	Captain ...	John H. Morgan..	December 1.	Silent alarm.	5½ days.	Left wrist and thumb sprained.
" 21 "	Pipeman	William Bateman.	January 1...	"	7 days..	Face burned.
" 21 "	"	James L. Clarken.	January 1...	"	.....	Face burned.
" 21 "	"	Joseph F. Knight.	August 31...	56	6 days..	Left thigh bruised.
No. 1 Hook and Ladder	Lieutenant .	Q. A. G. Hughes..	March 22....	12	8 days..	Left hand burned.
" 1 " " "	"	F. A. Teal...	November 17	113	9 days.	Left leg burned by acid.
" 1 " " "	Asst. Tillm'n	Harry A. Donahoe	May 17.....	136	8 days..	Right foot sprained.
" 2 " " "	Tillerman...	John H. Blake....	Feb. 18, 1897.	521	12 mos..	Left hip fractured. Pensioned February 20, 1898.
" 2 " " "	Asst. Tillm'n	Geo. E. Fornwalt..	June 9.....	336	17½ days	Right foot cut.
" 3 " " "	Ladderman .	John McClellan...	June 21,....	235	8½ days.	Scalp wound.
" 3 " " "	"	Fred'k Grauling..	February 21.	157	17 days.	Left wrist sprained.
" 3 " " "	"	Harry Courtney...	June 9.....	Drilling.	Died....	Fracture of spinal cord.
" 1 " " "	Asst. Tillm'n	Henry Kabernagel	March 11....	527	31½ days	Right ankle sprained.

"	4	Hook and Ladder	Ladderman .	George E. Gill....	April 8.....	In quarters.	13⅝ days	Cut on left knee.
"	4	" " "	Probationer.	G. W. Hughes....	September 9	518	5 days..	Laceration of right hand.
"	5	" " "	Lieutenant .	Lawrence Blake..	September 8	358	5¼ days.	Abscess on left foot from a bruise.
"	5	" " "	Ladderman .	Wm. H. Cullen....	March 15....	116	8 days..	Contusion of right knee.
"	5	" " "	"	James Radford....	November 3.	In quarters.	53⅝ days	Both wrists sprained.
"	6	" " "	Captain	T. D. O'Keefe....	Febraary 17.	65	.....	Right foot lacerated by a nail.
No.	6	Hook and Ladder	Captain	T. D. O'Keefe....	May 9	561	.....	Left hand burned.
"	6	" " "	Asst. Fiilm'n	A. G. Bramble....	May 9	561	8½ days.	Right foot lacerated by a nail.
"	9	" " "	Ladderman .	John R. Miller....	July 10	721	1½ days.	Right eye injured.
"	10	" " "	Captain	M. W. Jordan.....	January 21 .	393	8 days.	Contusion of left heel.
"	10	" " "	Ladderman .	John J. Clancey...	February 17.	In quarters.	8½ days.	Scalp wound.
"	10	" " "	"	James A. DePuey .	September 6.	371	6¼ days.	Cut on left hand.
"	4	Chemical	Hostler.....	William Lamb....	November 11	72	.....	Contusion of right knee and left arm.
"	1	"	Pipeman....	James Hart.....	October 9...	291	22½ days	Face and hands burned.

Roster of the Department

—AND—

LOCATION OF COMPANIES.

1898.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
William C. McAfee	34	April 1, 1888	Chief Engineer	2216 Oak st	Plumber.
George W. Horton	52	Mar. 15, 1862	1st Dist. "	404 Colvin st	Wire worker.
August Emrich	36	June 13, 1884	2nd " "	1032 E. Monument st	Coal dealer.
Frederick Branan	51	April 1, 1879	3rd " "	324 W. Twenty-first st	Harnessmaker.
Fielding H. Lucas	47	April 1, 1881	4th " "	1013 N. Arlington ave	Type founder.
Levin H. Burkhardt	31	Nov. 3, 1890	5th " "	1252 Barclay st	Carpenter.
William H. Hartman	40	April 2, 1883	6th " "	1503 Aisquith st	Plumber.
George J. Linsenmeyer	56	April 20, 1883	Supt. of Mach'y	1435 Battery ave	Machinist.
Thomas G. Griffith	26	June 1, 1898	Asst. Supt. Mach'y	1908 McElderry st	"

No. 1. ENGINE COMPANY.

Located on Paca Street, North of Fayette Street.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
James T. Dunn	38	April 1, 1890	Captain	636 W. Fayette st	Moulder.
William F. Morrow	49	April 1, 1876	Lieutenant	522 Laurens st	"
John H. Deal	56	Feb. 1, 1872	Engineman	1519 Myrtle ave	Machinist.
William H. Hardy	34	Mar. 6, 1895	Asst. Engineman	328 S. Poppleton st	"
Louis J. Fresch	55	Dec. 16, 1872	Hostler	507 N. Schroeder st	Carpenter.
Edward R. Addison	51	July 3, 1874	Pipeman	126 N. Poppleton st	Driver.
Albert Oelmann	32	June 28, 1888	"	627 W. Saratoga st	Blacksmith.
George W. Bentz	58	April 1, 1868	"	523 W. Saratoga st	Baker.
Wilbur D. Barker	28	May 29, 1896	"	1301 Columbia ave	Steamfitter.
Joseph G. Burger	39	Mar. 30, 1897	"	1137 N. Calhoun st	Driver.
John Watson	25	Dec. 15, 1897	"	903 W. Mulberry st	Carpenter.

No. 2 ENGINE COMPANY.—*Located on Barre Street, West of Sharp Street.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Henry C. Dotter	33	May 30, 1896	Captain	2327 Canton av	Moulder.
George C. Young	46	Mar. 31, 1891	Lieutenant	221 N. Monroe st	Tinner.
Thomas S. Atkinson	18	Aug. 5, 1881	Engineman	226 N. Monroe st	Machinist.
Daniel H. Weber	38	Aug. 1, 1889	Asst. Engineman	8 E. Montgomery st	Machinist.
Frank Hines	34	April 30, 1890	Hostler	906 S. Sharp st	Tinner.
George H. Hewitt	33	May 1, 1891	Pipeman	906 S. Sharp st	Brushmaker.
Charles E. Rice	29	April 15, 1893	"	1633 W. Lexington st	Packer.
William H. Bell	42	May 22, 1891	"	1118 Cleveland st	Blacksmith.
Edward Tauber	32	June 1, 1890	"	13 N. Carrollton av	Driver.
William Kimball	28	Mar. 1, 1895	"	101 Roselind av	Paperhanger.
William Landefeld	34	Dec. 12, 1896	"	105 N. Patterson Pk. av	Cutter.
John J. Schlag	32	Nov. 27, 1897	"	1456 Scott st	Moulder.

No. 3 ENGINE COMPANY.—*Located on East Lombard Street, near High Street.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
August Schlimm	32	April 1, 1890	Captain	1010 Eastern av	Hostler.
Frederick J. Strochlein	26	Dec. 15, 1896	Lieutenant	1913 Orleans st	Clerk.
William T. Hubbard	40	Dec. 7, 1893	Engineman	31 S. Bond st	Marine Engineer.
Joseph P. Whalen	33	July 28, 1896	Asst. Engineman	107 S. High st	Machinist.
Oliver F. Cannoles	36	April 2, 1897	Hostler	61 Belair av	Carpenter.
George L. Schlimm	38	April 1, 1888	Pipeman	252 S. Exeter st	Boxmaker.
Herman Fumbaugh	40	April 1, 1888	"	1817 E. Lombard st	Hostler.
Henry Meil	25	Dec. 15, 1896	"	1608 E. Chase st	Carpenter.
Frank Doerer	33	Mar. 5, 1895	"	111 N. Durham st	Hostler.
Arthur G. Harrison	26	June 3, 1897	"	729 N. Eutaw st	Plumber.
John Grasmick	25	Dec. 21, 1896	"	1413 Bank st	Carpenter.

No. 4 ENGINE COMPANY.—*Located on Lexington Street, between North and Calvert Streets.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Lawrence Pistel	48	May, 1, 1873	Captain	1544 Argyle ave	Cigarmaker.
John T. Owens	26	July 25, 1896	Lieutenant	1611 N. Wolfe st	Electric winder.
Herbert W. Pierce	31	July 1, 1891	Engineman	725 E. Preston st	Machinist.
Frederick C. Weiss	24	Oct. 1, 1896	Asst. Engineman	2007 Gough st	Machinist.
Israel D. Appleby	46	Dec. 12, 1896	Hostler	1933 Hollins st	Driver.
Constant Siebert	45	April 5, 1883	Pipeman	1216 E. Preston st	Driver.
Frank C. H. Berger	42	April 3, 1886	"	908 Ensor street	Silversmith.
Henry F. Boerner	38	Mar. 1, 1895	"	707 Colvin Place	Tinner.
George A. Foard	31	May 9, 1896	"	731 35th st., Hampden	Clerk.
Henry C. Grimes	29	June 1, 1897	"	904 W. Lexington st	Machinist.
Frank Heusman	24	Mar. 19, 1898	"	919 Ramsay st	Flyman.
Elias J. Kipp	41	Dec. 21, 1889	"	930 N. Washington st	Carpenter.

No. 5 ENGINE COMPANY.—*Located on Ann Street, near Gough Street.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Andrew W. German	49	June 1, 1872	Captain	153 Milton ave	Painter.
Charles Rosenthal	41	Oct. 1, 1890	Lieutenant	12 S. Ann st	Carpenter.
Frederick L. Nelson	51	Dec. 1, 1871	Engineman	104 S. Ann st	Machinist.
John M. Ford	28	Dec. 15, 1897	Asst. Engineman	1300 N. Chester st	Machinist.
Henry Murphy	47	Mar. 31, 1880	Hostler	331 S. Ann st	Sugar refiner.
Henry R. Seippel	49	Dec. 1, 1874	Pipeman	103 S. Ann st	Barber.
William B. Baker	41	June 17, 1882	"	208 S. Ann st	Brass finisher.
John F. Bilson	35	June 20, 1892	"	2000 E. Lombard st	Painter.
Anthony Schoepplein	43	June 24, 1891	"	309 S. Regester st	Cooper.
Joseph Nelson	29	Mar. 1, 1895	"	614 S. Chapel st	Laborer.
Joseph G. Smith	36	Mar. 1, 1895	"	1925 Fairmount ave	Mill hand.

No. 6 ENGINE COMPANY.—*Located corner of Gay and Ensor Streets.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
George W. Smith	41	May 12, 1890	Captain	903 Columbia ave	Plumber.
Lawrence Blake	52	April 1, 1871	Lieutenant	1543 Aisquith st	Painter.
Matthew Mulligan	60	Oct. 8, 1870	Engineman	1027 Valley st	Machinist.
Frank Huart	27	April 21, 1896	Ass't Engineman.	1804 E. Townsend st	Machinist.
Andrew Albert	35	April 6, 1895	Hostler	935 N. Castle st	Driver.
George Sykes	38	May 6, 1892	Pipeman	725 Ensor st	Collarmaker.
Isaac Cuddy	29	Dec. 2, 1893	"	806 N. Central ave	Carpenter.
William McKay Morrow	30	May 14, 1895	"	1309 Ashland ave	Paper carrier.
John T. Gordon	26	Aug. 10, 1895	"	241 Patterson Park ave.	Soap presser.
Frederick Kaufman	26	Sept. 7, 1895	"	817 N. Wolfe st	Carriagesmith.
Gustave Miller	27	Mar. 1, 1895	"	507 N. Bond st	Driver.
Charles Hesse	30	Nov. 5, 1897	"	1126 E. Lombard st	Shoemaker.

No. 7 ENGINE COMPANY.—*Located corner Eutaw Street and Druid Hill Avenue.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Samuel R. Watkins	44	July 26, 1891	Captain	1 Polk st	Sailmaker.
William H. Perrine	31	Dec. 11, 1896	Lieutenant	117 Proctor st	Salesman.
Samuel W. Stansbury	49	Dec. 1, 1884	Engineman	1929 W. Baltimore st	Machinist.
Frank R. Nehren	34	June 6, 1890	Ass't Engineman.	928 Argyle ave	Machinist.
Harman Schiminger	44	April 1, 1890	Hostler	424 Fremont st	Hostler.
Charles A. Soistman	45	April 1, 1890	Pipeman	602 Bradley st	Drummaker.
George Schneider	30	Oct. 15, 1892	"	907 Madison ave	Gas fitter.
John Weinkamp	32	April 14, 1891	"	655 Mulberry st	Cigarmaker.
William A. Hall	34	Mar. 1, 1895	"	711 Warner st	Marble cutter.
Samuel Seymour	38	Dec. 7, 1885	"	829 E. Fort ave	Canmaker.
Charles H. Baker	46	April 1, 1889	"	1928 Monroe st	Scale maker.

No. 8 ENGINE COMPANY.—*Located on Mulberry street, near Arlington avenue.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Wm. J. Stewart	47	Mar. 26, 1875	Captain	421 N. Arlington ave.	Tinner.
John W. Cook	37	May 7, 1893	Lieutenant	637 Mosher st	Baker.
Chas. E. Freeburger	50	June 1, 1875	Engineman	1202 W. Franklin st	Machinist.
Wm. F Awalt	37	April 1, 1890	Asst. Engineman	312 N. Poppleton st	Machinist.
James McGlennen	36	Aug. 31, 1889	Hostler	263 N. Schroeder st	Moulder.
Greenberry Chapman	66	Mar. 1, 1871	Pipeman	954 W. Franklin st	Shoemaker.
Chas. Airey	46	Oct. 11, 1883	"	1010 W. Saratoga st	Cigarmaker.
Thomas W. Jessop	38	Mar. 1, 1895	"	520 N. Schroeder st	Moulder.
William Eckert	40	April 15, 1887	"	1033 W. Mulberry st	Brushmaker.
James McGee	41	Sept. 27, 1897	"	120 N. Poppleton st	Driver.
Harry C. Showacre	29	May 19, 1896	"	2163 Calverton road	Carpenter.

No. 9 ENGINE COMPANY.—*Located on Madison street, east of Broadway.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Charles Betz	45	Sept. 4, 1885	Captain	426 Colvin st.	Shoemaker.
John A. McKew	31	April 1, 1893	Lieutenant	2042 E. Preston st	Machinist.
Daniel R. Rogers	52	Feb. 1, 1872	Engineman	1033 McDonogh st	Machinist.
Charles A. Litchfield	25	Dec. 15, 1897	Asst. Engineman	217 S. Mount st	Machinist.
Frisby Lloyd	38	Dec. 11, 1896	Hostler	1031 N. Washington st	Canmaker.
James McDevitt	56	Feb. 1, 1872	Pipeman	803 N. Washington st	Harnessmaker.
William H. Cuddy	41	June 29, 1888	"	1515 E. Madison st	Driver.
John Amend	38	Oct. 17, 1892	"	2209 Jefferson st	Boxmaker.
Richard V. Pittinger	50	April 1, 1880	"	1833 Jefferson st	Carpenter.
Frank G. Smith	25	April 1, 1897	"	2426 E. Fayette st	Can capper.
Albert Raine	26	Mar. 29, 1896	"	1523 N. Spring st	Salesman.

No. 10 ENGINE COMPANY.—*Located on Columbia avenue, near Poppleton street.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Henry Stagge	33	July 1, 1891	Captain	1117 Bowen st	Moulder.
Albert A. Torney	34	May 11, 1897	Lieutenant	127 Parkin st	Butcher.
John W. Walsh	49	Mar. 14, 1876	Engineman	1115 W. Baltimore st	Machinist.
James Nugent	42	Oct. 1, 1884	Asst. Engineman	417 S. Poppleton st	Machinist.
James T. Higdon	29	May 13, 1897	Hostler	1124 Nanticoke st	Driver.
Justice G. Keilholtz	53	Dec. 1, 1874	Pipeman	896 W. Lombard st	Mantle setter.
Henry Zachman	45	July 1, 1888	"	838 Woodward st	Cigarmaker.
John Eigenbrodt	37	Jan. 12, 1891	"	768 Columbia ave	Woodcarver.
Edward A. Ward	25	Mar. 15, 1895	"	1515 Battery ave	Driver.
Chas. L. Smoot	30	Oct. 15, 1896	"	19 N. Paca st	Blacksmith.
Thos. Kerr	35	Aug. 31, 1889	"	1111 Bowen st	Clerk.

No. 11 ENGINE COMPANY.—*Located on Eastern avenue, corner Patterson Park avenue.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Michael A. Lind	37	July 13, 1887	Captain	505 S. Patterson Park av	Painter.
Thomas Flaherty	38	Jan. 29, 1892	Lieutenant	311 S. Chester st	Pilot.
John Calder	52	Oct. 8, 1870	Engineman	422 S. Patterson Park av	Machinist.
John Lindemann	51	April 7, 1889	Asst. Engineman	2036 Bank st	Machinist.
Patrick H. Birthistle	31	Feb. 14, 1893	Hostler	1113 Stiles st	Driver.
John W. Barton	34	June 7, 1892	Pipeman	22 N. Rose st	Moulder.
John F. Curry	30	July 15, 1894	"	514 S. Montford ave	Stovefinisher.
Albert H. Gier	44	April 1, 1879	"	1913 E. Lombard st	Painter.
Joshua H. Miller	42	Nov. 10, 1885	"	14 N. Curley st	Cigarmaker.
Philip Peacock	40	Mar. 1, 1895	"	608 S. Washington st	Tinner.
George Shipley	41	Nov. 30, 1889	"	2236 Bank st	Gilder.

No. 12 ENGINE COMPANY.—*Located on Fort avenue, corner of Riverside avenue.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Paul Linde	32	Feb. 24, 1891	Captain	537 W. Dolphin st	Canmaker.
Edw. C. Klessel	46	Feb. 11, 1882	Lieutenant	1442 Riverside ave	Gilder.
Michael Lycett	52	Dec. 15, 1872	Engineman	1512 Henry st	Machinist.
William F. Walsh	36	May 19, 1893	Asst. Engineman	1646 S. Charles st	"
Joseph W. Moon	48	Aug. 11, 1877	Hostler	436 E. Fort ave	Driver.
Peter McGonigle	38	Jan. 14, 1890	Pipeman	1265 Riverside ave	Cotton Inspector.
Charles L. Wheatley	39	Feb. 22, 1896	"	1725 Covington st	Boilerm'k'r help'r
Matthew Carroll	49	April 8, 1896	"	1723 Covington st	Laborer.
Joseph P. McKenna	28	Dec. 5, 1895	"	14 Beverley st	Hardwood fin'h'r.
John F. Moran	37	Mar. 1, 1896	"	1113 William st	Moulder.
Charles T. Taylor	24	June 1, 1898	"	1527 S. Charles st	Machinist.

No. 13 ENGINE COMPANY.—*Located corner Fremont and Myrtle avenues.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
John Todd	34	June 1, 1891	Captain	1128 N. Carrollton ave	Laborer.
James Nolan	27	May 20, 1893	Lieutenant	232 N. Fremont ave	Collarmaker.
John A. Bannan	57	Sept. 8, 1877	Engineman	1117 Riggs ave	Machinist.
John W. Eckhart	31	Aug. 5, 1890	Asst. Engineman	317 E. Fort ave	"
John F. Mackenzie	51	Feb. 8, 1889	Hostler	386 Waverley ave	Car driver.
Wilbur Pearce	41	Oct. 5, 1883	Pipeman	1203 Winchester st	Moulder.
Louis Buehler	24	Jan. 7, 1897	"	Lake Montebello	Blacksmith.
Frederick G. Beck	44	Feb. 1, 1889	"	434 Wehage st	Photographer.
Frederick W. Viehmeyer	38	July 13, 1893	"	652 W. Mulberry st	Driver.
Clifton Hedley	26	April 8, 1897	"	1826 Division st	Painter.
Albert W. Schyne	32	Aug. 10, 1895	"	642 Mosher st	Driver.

No. 14 ENGINE COMPANY.

Located on Hollins Street, near Monroe Street.

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
J. F. Rupp	41	June 29, 1888	Captain	118 S. Gilmor st	Plasterer.
W. C. D. Knight	30	July 10, 1891	Lieutenant	2003 Hollins st	Driver.
John Gaffney	43	April 1, 1880	Engineman	1925 Hollins st	Machinist.
C. P. Kuhan	52	Dec. 19, 1892	Ass't Engineman	18 S. Monroe st	Machinist.
Joseph Lavender	51	Mar. 17, 1876	Hostler	771 W. Mulberry st	Driver.
C. A. Orem	48	Sept. 2, 1880	Pipeman	2915 Walbrook av., Annex	Painter.
Leonard Jessop	13	July 30, 1892	"	69 S. Monroe st	Plasterer.
G. D. Shanks	39	Dec. 13, 1896	"	1929 Hollins st	Shoemaker.
Herman Seeger	31	Dec. 2, 1897	"	1918 Frederick ave	Cigarmaker.
W. T. Musgrove	27	April 8, 1897	"	Wesley ave., Annex	Moulder.
W. J. Bateman	24	Nov. 1, 1897	"	225 President st	Varnisher.

No. 15 ENGINE COMPANY.—*Located on Lombard Street, between Eutaw and Howard Streets.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
James A. Campbell	34	Jan. 16, 1894	Captain	525 N. Paca st	Stonecutter.
Michael J. Ready	29	May 30, 1896	Lieutenant	528 N. Calvert st	Wood turner.
John M. Frederick	36	Sept. 8, 1888	Lieutenant	1139 W. Cross st	Shoemaker.
John Conway	43	Mar. 1, 1883	Engineman	909 Columbia av	Machinist.
John J. Cahill	34	Feb. 15, 1893	Asst. Engineman	18 Parkin st	"
Edward R. McCullough	41	May 29, 1895	Asst. Engineman	7 N. Bond st	"
Mark Hill	46	April 1, 1890	Hostler	1604 W. Franklin st	Tinner.
Charles L. Schulte	40	Nov. 10, 1892	Pipeman	432 Aisquith st	Butcher.
Frank J. Lavender	27	July 9, 1895	"	735½ W. Mulberry st	Laborer.
August Lang	31	Nov. 18, 1893	"	818 S. Peter st	Cigarmaker.
John Kahl	29	Feb. 1, 1894	"	10 E. Hamburg st	Driver.
William E. Stewart	29	Nov. 15, 1893	"	129 N. Front st	Iron moulder.
John A. Henneman	36	April 19, 1895	"	1819 Division st	Driver.
Ebenezer Pyle	32	May 26, 1896	"	105 S. Carey st	Clerk.
Charles P. Griffin	46	Dec. 15, 1896	"	1103 Carroll st	Salesman.
John J. Flynn	31	Oct. 1, 1897	"	242 S. Regester st	Stationery eng'r.
Charles A. Fraser	33	Mar. 28, 1898	"	1208 W. Lombard st	Machinist
George L. Krausz	31	Dec. 15, 1897	"	1458 Patapsco st	Brushmaker.
George W. Stewart	24	Dec. 15, 1897	"	1141 S. Sharp st	Bottler.
Henry Ludwig	48	Mar. 11, 1892	"	865 Ramsay st	Boxmaker

No. 16 ENGINE COMPANY, FIRE-BOAT.—*Location, Commercial Wharf.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
John B. Bortell	33	Sept. 7, 1888	Captain	9 N. Bond st.	Ship rigger.
Louis Harrer	41	Dec. 19, 1892	Lieutenant	227 S. Caroline st.	Pile driver.
Wm. C. Stallings	50	Dec. 28, 1891	Pilot	309 S. Ann st.	Pilot.
Iverson J. Moon	44	Oct. 15, 1898	"	116 S. Chester st.	"
Thomas H. Menshaw	42	May 15, 1885	Engineman	2204 E. Lombard st.	Machinist.
William L. Sbisa	34	July 28, 1896	Asst. Engineman.	2127 E. Lombard st.	Marine engineer.
Lawrence F. Rudolph	25	Mar. 15, 1895	" "	222 S. Chester st.	Machinist.
James H. Hoey	51	July 15, 1891	Stoker	218 S. Castle st.	Stoker.
John Stanton	35	Mar. 15, 1895	"	2206 E. Lombard st.	Boilermaker.
James G. Guy	30	Dec. 15, 1897	"	1929 E. Fayette st.	Railroad fireman.
John T. Seabreeze	53	Feb. 5, 1892	Pipeman	125 S. Ann st.	Painter.
James N. Robb	22	May 26, 1898	"	2124 E. Lombard st.	Laborer.

No. 17 ENGINE COMPANY.—*Located corner of Fort Avenue and Haubert Street.*

Name.	Age.	Date of Appointment	Position.	Residence.	Former Occupation.
John Prenger	46	April 15, 1890	Captain	1411 Hull st.	Machinist.
Chas. E. Dewitt	48	May 1, 1885	Lieutenant	2452 W. Baltimore st.	Carpenter.
Thos. F. Sexton	41	July 1, 1888	Engineman	109 W. Clement st.	Machinist.
John I. Cranford	29	Feb. 15, 1893	Asst. Engineman.	1446 Haubert st.	"
Casper Kraft	38	Dec. 9, 1892	Hostler	1103 Riverside ave.	Driver.
James Catterton	49	Oct. 23, 1886	Pipeman	1460 William st.	Painter.
John Moeller	31	Oct. 13, 1893	"	1330 E. Fort ave.	Packer.
Thos. Voyce	38	April 1, 1890	"	529 E. Fort ave.	Boilermaker.
Frank A. Kraft	28	July 7, 1894	"	1460 William st.	Painter.
Peter Lohman	40	May 1, 1896	"	1515 Jackson st.	Laborer.
Dan'l Vogelgesang	41	May 1, 1890	"	1425 Covington st.	Canmaker.
James J. Knox	38	Mar. 6, 1895	"	1418 Cooksie st.	Laborer.

No. 18 ENGINE COMPANY.—*Located on Twenty-First Street, Near Maryland Avenue.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
John H. Morgan	48	July 1, 1873	Captain	2360 Oak st	Paperhanger.
William H. Quincy	43	Feb. 4, 1893	Lieutenant	402 E. North ave	Stone-cutter.
Thomas S. Brown	39	Aug. 1, 1886	Engineman	122 W. 24th st	Machinist.
Elijah J. B. Moore	35	Mar. 1, 1895	Ass't Engineman.	1306 Valley st	Machinist.
John W. Potts	41	June 1, 1888	Hostler	2356 Oak st	Driver.
Robert H. Blatchley	28	Feb. 14, 1893	Pipeman	2158 York road	Painter.
Michael J. Griffin	36	Feb. 1, 1893	"	311 21st st	Hostler.
William C. McKenna	36	July 10, 1894	"	420 W. 23d st	Canmaker.
William J. McDonald	31	Mar. 1, 1895	"	205 W. 24th st	Tinner.
George U. McFadden	30	May 10, 1892	"	3220 Cedar ave	Carpenter.
Thomas H. Sutton	28	Jan. 1, 1895	"	2441 Barclay st	Motorman.
Joseph J. Presley	31	Feb. 14, 1893	"	1420 Druid Hill ave	Car-driver.

No. 19 ENGINE COMPANY.—*Located Corner of North Avenue and Bond Street.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Benjamin Price	51	April 1, 1879	Captain	2615 Atlantic ave	Coffee roaster.
George E. Croucher	36	Mar. 1, 1888	Lieutenant	2012 E. North ave	Canmaker.
John N. Bletzer	35	Jan. 26, 1889	Engineman	722 S. Bond st	Machinist.
Jacob S. Corns	45	Mar. 1, 1895	Ass't Engineman.	1812 N. Broadway	Machinist.
Michael J. Farley	36	April 26, 1889	Hostler	1827 N. Bond st	Car-driver.
John F. Maguire	30	Feb. 7, 1893	Pipeman	1843 N. Regester st	Shipping clerk.
Nicholas Barrett	31	June 25, 1895	"	519 N. Exeter st	Horseshoer.
Charles C. Neilson	45	Dec. 29, 1877	"	1622 N. Wolfe st	Bricklayer.
Harry F. Bodge	40	June 22, 1892	"	1505 N. Washington st	Hardw'd finish'r.
Martin Kirby	53	Feb. 1, 1883	"	1837 N. Bond st	Trunkmaker.
Louis Lohman	38	Mar. 6, 1895	"	1516 N. Gay st	Varnisher.
Solomon Uhlfelder	55	Feb. 1, 1872	"	1641 E. Madison st	Huckster.

No. 20 ENGINE COMPANY.—*Located on West North Avenue, near Tenth Street.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
George F. Kennard	32	Sept. 5, 1891	Captain	3021 Northwest street	Clerk.
William I. Johns	39	Aug. 3, 1888	Lieutenant	1430 E. Lanvale street	Bricklayer.
Thomas F. Sadler	37	Nov. 5, 1896	Engineman	1319 Edmondson ave	Machinist.
George C. Lloyd	30	Feb. 29, 1892	Asst. Engineman	1213 W. Cross street	"
John I. Buck	30	Dec. 12, 1897	Hostler	1722 Eighth street	Bricklayer.
Philip Bowen	47	Mar. 19, 1877	Pipeman	3022 Northwest street	Cigarmaker.
Samuel W. Marker	47	April 15, 1880	"	208 N. Arlington ave	Carpenter.
Hugh P. Fox	40	July 8, 1892	"	2911 Walbrook ave	Blacksmith.
Walter J. Woods	46	Mar. 26, 1897	"	2814 W. Lanvale street	Carpenter.
William J. Watkins	36	Aug. 2, 1895	"	625 N. Payson street	Cotton inspector.
Richard H. Hobson	35	Aug. 20, 1896	"	1901 Braddish ave	Laborer.
William J. Conzens	38	Feb. 1, 1898	"	1414 E. Lanvale street	Collarmaker.

No. 21 ENGINE COMPANY.—*Located Corner Roland Avenue and Oliver Place.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
John Hoffman	51	April 1, 1879	Captain	637 Pitcher street	Canmaker.
Wm. R. Bolgiano	38	April 28, 1898	Lieutenant	6 E. Montgomery st.	Clerk.
J. H. Hedrick	34	Dec. 23, 1896	Engineman	121 N. Patterson Pk. av.	Machinist.
T. S. Roberts	38	April 1, 1897	Asst. Engineman	2203 Oak st	"
T. A. Wann	30	Mar. 9, 1897	Hostler	508 Oliver Place	Motorman.
J. F. Schaefer	61	April 1, 1888	Pipeman	719 W. Baltimore st	China packer.
J. L. Clarken	40	Aug. 1, 1888	"	226 Hickory ave	Driver.
Burke Whitmore	23	June 4, 1897	"	6010 Hickory ave	Laborer.
John Bell	41	Sept. 15, 1897	"	3621 Chestnut ave	Porter.
Joseph Knight	39	Jan. 15, 1898	"	1446 Battery ave	Boilermaker.
Howard Waite	23	Dec. 15, 1897	"	2647 Maryland ave	Painter.
Robert E. Johns	35	Feb. 7, 1898	"	1613 E. Lanvale st	Carpenter.

No. 1 HOOK AND LADDER COMPANY.—*Located on Harrison Street near Fayette Street.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
E. Louis Shipley	38	July 1, 1891	Captain	1819 Druid Hill ave.	Shoemaker.
Franklin A. Teal	26	Jan. 24, 1896	Lieutenant	1206 Light st	Street paver.
George W. Haskell	53	April 22, 1876	Tillerman	325 S. Ann st	Carpenter.
Harry A. Donohoo	30	Mar. 31, 1898	Asst. Tillerman	1419 E. Baltimore st	Cutter.
John T. Mulligan	38	Jan. 20, 1885	Hostler	14 N. Front st	Driver.
Z. T. Seabreeze	50	April 1, 1890	Ladderman	211 Gough st	"
Joseph H. Daly	46	Jan. 15, 1881	"	132 N. Exeter st	Stonecutter.
James P. Lyons	27	Mar. 1, 1895	"	735 E. Baltimore st	Horseshoer.
John R. Herr	27	Nov. 20, 1895	"	2113 Fairmount ave.	Clothing cutter.
William G. Schultz	26	May 20, 1896	"	2011 Gough st	Boxmaker.
Robert T. Creamer	31	Mar. 9, 1897	"	597 N. Gay st	Carpenter.

No. 2. HOOK AND LADDER COMPANY.—*Located on Paca Street, near Fayette Street.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Emil Heise	39	Mar. 1, 1890	Captain	1208 Jackson st	Furniture packer.
John L. Emerson	30	Jan. 18, 1892	Lieutenant	2406 Druid Hill ave.	Painter.
Fredk. W. Johnston	29	May 1, 1894	Tillerman	2125 W. Lexington st	Carpenter.
George E. Fornwalt	29	Jan. 17, 1897	Asst. Tillerman	1302 Lafayette ave.	Fireman.
Thomas Montgomery	57	April 1, 1870	Hostler	121 N. Paca st	Driver.
Wm. P. Burke	34	Mar. 1, 1895	Ladderman	2020 Eastern ave.	Boilermaker.
George J. Hamilton	23	Dec. 15, 1897	"	411 N. Howard st	Driver.
Q. A. G. Hughes	35	Mar. 4, 1897	"	1811 Fairmount ave.	Freight handler.
Howard Travers	23	April 29, 1897	"	436 Roland ave	Laborer.
John W. Wittig	27	April 27, 1897	"	1705 Gough st	"
Joseph Daley	27	Mar. 27, 1897	"	571 Baker st	Driver.

No. 3 HOOK AND LADDER COMPANY.—*Located on South Ann Street, near Gough Street.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
George W. Foxwell	52	Jan. 1, 1871	Captain	1911 Bank st	Shipwright.
Peter Nelson	40	Jan. 3, 1890	Lieutenant	14 S. Ann st	Seaman.
John N. Downs	51	Jan. 1, 1871	Tillerman	2121 Orleans st	Painter.
James F. Reilly	46	Nov. 13, 1874	Asst. Tillerman	1633 E. Lombard st	"
William Hastler	35	Mar. 31, 1893	Hostler	1925 Canton ave	Hostler.
John McClellan	65	Jan. 1, 1871	Ladderman	1814 Fairmount ave	Sailmaker.
Frederick Grouling	34	Dec. 26, 1892	"	2031 Canton ave	Laborer.
Christian Fitzberger	28	Mar. 1, 1895	"	123 S. Caroline st	Chinapacker.
Michael E. Lynch	38	June 1, 1893	"	244 S. Regester st	Laborer.
T. Edward Burch	37	Sept. 12, 1896	"	2209 Gough st	Tinner.
Joseph Diggs	30	May 30, 1896	"	214 S. Castle st	Ironmoulder.
George E. Wellslager	27	Dec. 15, 1897	"	214 N. Patterson Park av.	Shearcutter.

No. 4 HOOK AND LADDER COMPANY.—*Located on Biddle Street, near Druid Hill Avenue*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Andrew J. Bilson	47	July 2, 1896	Captain	19 E. Lanvale st	Plasterer.
Henry J. Carle	28	April 2, 1894	Lieutenant	503 W. Franklin st	Electrotyper.
John J. Kurne	39	Oct. 23, 1886	Tillerman	415 W. Hoffman st	Shoemaker.
George E. Gill	40	May 6, 1891	Asst. Tillerman	1416 W. Lafayette ave	Painter.
Andrew J. Connelly,	43	April 1, 1882	Hostler	411 N. Pine st	Driver.
Charles Sapp	37	Feb. 14, 1893	Ladderman	1418 W. Pratt st	Laborer.
Milton R. Quigley	34	Nov. 21, 1897	"	509 N. Pine st	Plumber.
Charles L. Wain	30	Dec. 9, 1897	"	1225 Madison ave	Driver.
James A. Nash	34	April 29, 1898	"	29 E. Fort ave	Ironmoulder.
Benjamin Goetzinger	27	April 27, 1898	"	2209 Mulliken st	Driver.
William Schipferling	25	June 10, 1898	"	249 Battery ave	Baker.
John B. Winters	26	Feb. 1, 1898	"	654 Pitcher st	Fireman.

No. 5 HOOK AND LADDER COMPANY.—*Located on Aisquith Street, near Oliver Street.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Robert R. Perry	30	June 7, 1892	Captain	2219 Orleans st	Ironmoulder.
Geo. E. McNeil	26	July 28, 1897	Lieutenant	1306 Ashland ave	Stoker.
Peter B. Mullen	40	July 1, 1891	Tillerman	1332 Hillman st	Painter.
Alex. McFaul	30	May 13, 1897	Ass't Tillerman	2021 Gough st	Carpenter.
William Quinn	49	April 1, 1887	Hostler	1034 N. Eden st	Driver.
William Wiley	56	April 1, 1887	Ladderman	1308 Harford ave	Cigarmaker.
James McCarron	28	Mar. 1, 1895	"	2002 E. Chase st	Potter.
Fred. W. Harman	34	Aug. 31, 1892	"	405 N. Spring st	Brassfinisher.
George F. Thompson	46	April 1, 1892	"	1049 Harford ave	Strawhatmaker.
Louis Herman	28	Oct. 1, 1897	"	303 S. Caroline st	Machine hand.
George Hanauer	24	Dec. 17, 1897	"	1805 E. Fayette st	Tinner.
James Radford	31	Mar. 9, 1897	"	1712 Lanvale st	Driver.

No. 6 HOOK AND LADDER COMPANY.—*Located Northeast Corner Hanover and Ostend Streets.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Thomas D. O'Keefe	33	July 1, 1888	Captain	1343 S. Charles st	Driver.
George S. Koller	26	Oct. 11, 1897	Act'g Lieutenant.	21 W. Ostend st	Railroad fireman.
James J. Gill	43	April 1, 1879	Tillerman	8 E. West st	Moulder.
Amos G. Bramble	30	Mar. 1, 1895	Asst. Tillerman	1516 S. Charles st	Driver.
Louis Matthaei	34	Nov. 12, 1891	Hostler	1419 Hanover st	"
Henry Toepfer	31	Feb. 11, 1893	Ladderman	1422 Hanover st	Baker.
Charles F. Fay	41	Feb. 14, 1893	"	21 E. Ostend st	Carpenter.
William Leonard	42	Feb. 23, 1894	"	1116 Hanover st	Driver.
Joseph P. Neubert	46	Mar. 1, 1895	"	1364 Andre st	Electrician.
Philip J. Knell	40	April 25, 1896	"	1426 S. Charles st	Driver.
William S. Fort	30	Feb. 8, 1898	"	1329 Hanover st	Painter.
Joseph F. Squires	30	July 1, 1898	"	17 S. Carey st	Plumber.

No. 7 HOOK AND LADDER COMPANY.—*Located at Waverly.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Andrew J. McCormick..	39	May 19, 1889...	Hostler.....	505 Friendship lane.....	Car driver.

No. 8 HOOK AND LADDER COMPANY.—*Located on Brunswick Street, near Frederick Road.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
John L. Durham	35	May 5, 1889....	Hostler.....	137 Millington ave	Plumber.

No. 9 HOOK AND LADDER COMPANY.—*Located Corner Roland Avenue and Oliver Place.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
John W. Shaffer.....	32	Feb. 14, 1893...	Hostler.....	304 Elm ave.....	Moulder.

No. 10 HOOK AND LADDER COMPANY.—*Located on Lafayette Avenue, between Stricker and Gilmor Streets.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Malcolm W. Jordan	29	July 25, 1891	Captain	1026 N. Gilmor st.	Driver.
Henry C. Kabernagel	39	April 17, 1896	Lieutenant	1418 W. Lafayette ave.	Laborer.
William F. Beall	37	April 1, 1887	Tillerman	2858 W. Lafayette ave.	Canmaker.
John J. Purcell	28	April 21, 1896	Asst. Tillerman	2865 W. Lafayette ave.	Carpenter.
Cooper Elliott	46	Oct. 4, 1887	Hostler	1318 E. Monument st.	Driver.
Charles E. Brown	30	Oct. 1, 1893	Ladderman	1632 W. Lanvale st.	Laborer.
William H. Siebert	36	Oct. 1, 1897	"	3128 Elliott st.	Stevedore.
James A. DePuey	35	Oct. 1, 1897	"	1931 W. Lanvale st.	Paperhanger.
Frank H. Carr	23	Dec. 8, 1897	"	19 Penn st.	Steamfitter.
William T. Hughes	33	Feb. 4, 1898	"	710 Blucher st.	Motorman.
Louis Moore	34	Feb. 21, 1898	"	1505 W. Saratoga st.	Baker.
William A. Meushaw	47	Nov. 8, 1885	"	27 Riggs ave., ext'd.	Mariner.

No. 11 HOOK AND LADDER COMPANY.—*Located on Twenty-first Street, near Maryland Avenue.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Thomas J. Strahler	39	Dec. 10, 1881	Captain	1320 Ensor st.	Tinner.
Edward W. Steinacker	38	June 1, 1888	Lieutenant	2710 Huntingdon ave.	Hostler.
Frank A. Hansson	30	Dec. 13, 1892	Tillerman	905 W. Mulberry st.	Blacksmith.
Edgar T. Beach	26	Aug. 4, 1897	Asst. Tillerman	203 W. Twenty-fourth st.	Steamfitter.
Charles E. Zimmerman	30	Oct. 1, 1897	Hostler	517 Oliver Place	Hostler.
William White	53	April 1, 1868	Ladderman	1101 Carrollton ave.	Carpenter.
William Darney	27	Feb. 18, 1898	"	3 Mine Bank lane	"
Clarence Kirby	38	Dec. 12, 1896	"	2442 Francis st.	"
Charles E. Edwards	26	June 1, 1898	"	1512 Pentland Place	Brakeman.
Guy S. Ellis	36	July 1, 1898	"	345 S. Stricker st.	Ironfinisher.
George Evans	22	July 27, 1898	"	922 E. Madison st.	Upholsterer.
Henry Heinze	32	Aug. 1, 1898	"	706 N. Caroline st.	Shipping clerk.

No. 1 CHEMICAL ENGINE COMPANY.—*Located on Brunswick Street, near Frederick Road.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Charles L. Steinwedel..	30	Mar. 9, 1897..	Captain.....	13 Pulaski st.....	Laborer.
John A. Epp.....	36	Feb. 15, 1893..	Hostler.....	434 Frederick ave.....	Cabinetmaker.
Antone Yienger.....	34	July 23, 1889..	Pipeman	2210 Wilkens ave.....	Candymaker.

No. 2 CHEMICAL ENGINE COMPANY.—*Located on Mary Street, near Retreat Street.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
James R. Merriken	36	Aug. 1, 1888..	Captain	3019 Pennsylvania ave...	Driver.
Christian Freyer	39	May 1, 1893..	Hostler	2013 Walbrook ave	Blacksmith.
John M. Gilleland.....	31	April 3, 1895..	Pipeman	1305 Fulton ave	Driver.

No. 3 CHEMICAL ENGINE COMPANY.—*Located at No. 20 Engine House, Walbrook.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
James A. Clark.....	34	Aug. 25, 1891..	Captain.....	2456 York road	Car-driver.
James B. Kelley.....	41	April 1, 1887..	Hostler.....	1528 Division st.....	Driver.
Charles M. Johannes....	32	Jan. 25, 1895..	Pipeman	3013 Northwest st.....	Stonecutter.

No. 4 CHEMICAL ENGINE COMPANY.—*Located at Waverly.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Wm. H. Taylor	57	June 1, 1888	Captain	3108 York road	Conveyancer.
Wm. Lamb	36	Aug. 7, 1891	Hostler	156 Old York road	Car driver.
James Hart	42	June 17, 1899	Pipeman	122 Old York road	Carpenter.

No. 5 CHEMICAL ENGINE COMPANY.—*Located at Homestead.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
Robert H. Dougherty	41	Jan. 12, 1889	Captain	414 Jefferson st., Annex	Undertaker.
Ambrose Spangler	33	Nov. 26, 1895	Hostler	37 Gorsuch ave., Annex	Driver.
Geo. W. Fee	31	Dec. 21, 1897	Pipeman	249 Jackson st., Annex	Blacksmith.

No. 6 CHEMICAL ENGINE COMPANY.—*Located on Belair Avenue.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
John J. Clancy	31	Oct. 2, 1897	Captain	1626 Lamont ave	Canmaker.
Zachariah H. Foote	34	Feb. 26, 1892	Hostler	68 Belair ave	Moulder.
John Sullivan	35	Dec. 8, 1890	Pipeman	66 Belair ave	Painter.

No. 7 CHEMICAL ENGINE COMPANY.—*Located Corner Roland Avenue and Oliver Place.*

Name.	Age.	Date of Appointment.	Position.	Residence.	Former Occupation.
James J. Reynolds	40	July 20, 1889	Captain	431 Roland ave	Driver.
Edward E. Harp	26	Oct. 1, 1897	Hostler	3106 Cedar ave	Lineman.
John L. Thomas	30	June 1, 1892	Pipeman	295 Chestnut ave	Blacksmith.
John R. Miller	28	Mar. 1, 1895	"	729 Third ave	Carpenter.

PROBATIONARY FIREMEN.

Name.	Age.	Date of Appointment.	Company Assigned to.	Residence.	Former Occupation.
Marion L. Sunderland	23	Oct. 5, 1898	No. 1 Engine Co.	614 S. Paca st	Driver.
Michael J. Kram	36	Dec. 28, 1898	" 3 "	1104 E. Hoffman st	Cooper.
Harry Curran	27	Oct. 6, 1898	" 4 "	1800 N. Caroline st	Driver.
Walter Filling	24	Oct. 5, 1898	" 7 "	1126 Ridgely st	"
George W. Hughes	35	Aug. 1, 1898	" 9 "	104 Montford ave	Bricklayer.
Frank D. Dolan	30	Nov. 2, 1898	" 10 "	768 Columbia ave	Moulder.
Joseph Barrett	22	Nov. 14, 1898	" 11 "	1421 Clement st	Laborer.
J. M. L. Buckey	37	Oct. 5, 1898	" 12 "	639 W. Barre st	Machinist.
William Thompson	37	Oct. 5, 1898	" 13 "	652 W. Lexington st	Bricklayer.
Stephen Cosgrove	22	Oct. 6, 1898	" 15 "	831 Woodward st	Printer.
Alpha T. Stover	24	Oct. 6, 1898	" 15 "	517 Hickory ave	Driver.
August I. Walker	34	Oct. 8, 1898	" 15 "	1504 W. Lafayette ave	Plumber.
James O'Grady	24	Oct. 15, 1898	" 15 "	919 Booth st	Iron-moulder.
Otto Leidtke	25	Oct. 21, 1898	" 15 "	2818 Hudson st	Laborer.
John Schutz	34	Sept. 7, 1898	" 16 "	129 N. Port st	Machinist.
David Perlman	26	Oct. 6, 1898	" 1 H. & L.	36 S. High st	Tailor.
Henry Marks	25	Oct. 5, 1898	" 2 "	402 E. Cross st	Laborer.
James H. Wentz	23	Oct. 1, 1898	" 4 "	306 Parkin st	Stonecutter.
George H. Mills	24	Oct. 19, 1898	" 1 Chemical	5 Brunswick st	Driver.
George W. Wanner	25	Oct. 5, 1898	" 4 "	905 N. Gay st	Clerk.

REPORT

OF THE

Superintendent Fire-Alarm Telegraph.

1898.

REPORT.

To the Honorable Board of Fire Commissioners:

Herewith I submit the annual report of the Fire-alarm Telegraph for the year ending December 31, 1898.

I assumed the duties of Superintendent of Fire-alarm Telegraph on November 15 last, and consequently have not had sufficient time to entirely familiarize myself with the needs of the department, but such as to me appear urgent are herein incorporated.

The general condition of the apparatus, lines, etc., is good, and shows that improvement has been made during the year.

The overhauling of the overhead lines, begun last year, has been continued, with the very gratifying result that line troubles are being steadily diminished. There still remains some of this work to be done, and I expect to continue it until every pole route and circuit is put in the best possible condition.

A new box circuit (No. 31) was established during the year by moving seven fire-alarm boxes from No. 11 and No. 12 circuits, which circuits were overcrowded. The new circuit has lessened the liability to interference, and reduced the number of fire-boxes involved when either of the circuits get into trouble.

The work of removing the keyless doors has been completed, and all fire-alarm boxes are now provided with the glass key-guard doors, an improvement which has been generally commended.

All the Blake transmitters have been removed from the department telephones, and solid-back long distance transmitters substituted. While this change has made some improvement in the telephone service, much still remains to be done to make this branch of the service reliable and satisfactory. Without the tele-

phone the department would be most seriously handicapped, and I trust my recommendation looking to the improvement of this service, will receive the approval of the Board.

During the year thirty-five new fire-alarm boxes have been added to the service, numbered and located as follows:

148—Eastern and Central avenues.
178—Fairmount avenue and Patapsco street.
179—Fayette street and Milton street.
192—Eastern avenue and Chesapeake street.
226—Orleans and Forrest streets.
279—Jefferson street and Montford avenue.
289—Gutman and Montebello avenues.
318—Lexington and Little Sharp streets (duplicate).
374—Linden and North avenues.
375—Lafayette avenue and John street.
376—Eutaw Place and Robert street.
377—Lafayette and Maryland avenues.
378—Lafayette avenue and St. Paul street.
388—Callow avenue and Reservoir street.
445—Poppleton and Saratoga streets.
477—Harlem avenue and Monroe street.
479—Fulton avenue and Presbury street.
489—Lanvale and Payson streets.
528—Hanover and Conway streets,
537—Paca and Little Greene streets.
547—Hanover and Stockholm streets.
575—Lexington and Smallwood streets.
713—Druid Hill and Fulton avenues.
714—Ruskin street and Parkwood avenue.
715—Whitelock lane and Druid Hill avenue.
722—Hampden avenue and Twenty-seventh street.
723—Morling street and Conduit avenue.
729—Greenmount and Girard avenues.
732—Durham and Federal streets.
733—Washington and Eager streets.
734—Milton avenue and Preston street.
735—Broadway and Lanvale street.
736—Caroline and Townsend streets.
74—Old York road and Carroll avenue.
741—Gorsuch avenue and Republic street.

A new four-dial manual repeater has been received from the Gamewell Fire-alarm Telegraph Company and placed in service, and is giving entire satisfaction.

This addition to the central office apparatus places the Baltimore Fire-alarm Telegraph Department in the fore of modern fire-alarm offices, and will meet the requirements of this department for many years.

A much needed improvement has just been completed in establishing a new cross-connecting board in the cellar of the City Hall.

This board is designed to give ready and easy access to the wires of the department where they leave the underground cables and before they enter the switch board in the operating room, and will prove a valuable addition to the equipment.

On Sunday, December 4th, the city was visited by a violent wind and rain storm, which prostrated more than half of the circuits connected with the fire-alarm department.

Many of the wires were crossed with electric light and trolley wires, resulting in the burniug out of many fire-alarm boxes, a number of engine house and tapper gongs; also two cable boxes were damaged by these currents, and had it not been for the protectors, with which they are provided, one or more of our underground cables would have been injured. By Tuesday night, December 6th, all the circuits were again in working order, and alarms were being received and transmitted in the usual manner, due to the energetic and loyal assistance given me by the employees of this department, for which I embrace this opportunity to tender them my thanks.

The greater part of the damage sustained during this storm was due to wires carrying currents of high voltage crossing the fire-alarm wires, which are not insulated. Had our wires been covered with a good insulation, much of the damage would have been averted, and this would indicate that it would not only be economy to reconstruct these lines with insulated wire, but that it would also greatly reduce the liability to interruptions to box circuits, during which the section of the city involved is left without fire protection.

To keep the service at its highest state of efficiency requires the constant inspection of every part of the plant; our present line force composed of one chief and four linemen is not more than sufficient to keep up with current work, and affords but little opportunity to do systematic inspection, nor is it large enough to meet an emergency. This force should be increased.

During the coming year I expect to increase the number of alarm circuits by reducing some of the longest and taking important companies off of those that now extend to the Annex. I also intend to begin a rearrangement of box circuits, whereby those serving the parts of the city where the underground cables have been laid will be separated from the overhead circuits, thus reducing interruptions to the minimum.

I recommend that a branch exchange switch board for the telephone service be installed, and that the telephone be separated from the independent call wire.

That bare wire circuits be converted into insulated wire circuits.

That an additional lineman and three telephone operators be employed.

ESTIMATE FOR 1899.

Salaries	$19,000 00
Changing telephone service	3,500 00
Changing circuits	3,000 00
Material, extra labor, etc	6,500 00
Material, extra labor, etc., Annex	1,000 00
	$33,000 00

EMPLOYEES.

M. J. Dean	Operator.
W. F. Gettrust	"
John J. McCoy	"
H. C. Martin	"
C. C. Prince	"
W. H. Shuter	"
J. N. Smith	Chief Lineman.
Jas. W. Anderson	Lineman.
Thos. W. Glass	"
Robert Kain	"
N. C Wolfe	"

Respectfully submitted.

FRANK G. BOYD, *Superintendent.*

ANNUAL REPORT

—— OF THE ——

Inspector of Buildings

—— TO THE ——

Mayor and City Council of Baltimore,

—— FOR THE ——

FISCAL YEAR ENDING DECEMBER 31st, 1898.

DEPARTMENT OF BUILDINGS.

PERSONNEL.

Inspector of Buildings:
EVERETT J. DOWELL, No. 1423 Edmondson Avenue.

Clerk:
Alex. M. Montell, No. 833 N. Eutaw Street.

Assistant Inspector of Buildings:
George R. Bullen, No. 1210 W. Franklin Street.

Engineer:
Francis H. Waters, No. 2207 Bolton Avenue.

Inspector of Furnaces:
N. B. Shorey, No. 305 Robert Street.

Superintendent of Construction of New Buildings:
M. O. Travers, No. 205 N. Fulton Avenue.

Special Inspector and Superintendent of Repairs:
Solomon Coburn, No. 1518 Eutaw Place.

Inspector of Northwestern District:
R. H. Beauchamp, No. 109 E. Montgomery Street.

Inspector of Northeastern District:
John P. Teal, No. 1831 Jefferson Street.

Inspector of Southeastern District:
John H. Horner, No. 1117 Granby Street.

Inspector of Southwestern District:
Thos. L. Parks, No. 1311 Light Street.

Inspector of Annex District:
J. Frank Crowther, Woodberry Avenue.

REPORT.

DEPARTMENT OF BUILDINGS—CITY HALL.

BALTIMORE, January 3, 1899.

To the Honorable the Mayor and City Council of Baltimore:

GENTLEMEN: In accordance with the provision of law, I have the honor to submit herewith my annual report covering the business transacted by the Department of Buildings for the year ending December 31, 1898.

The tables forming a part of this report are intended to show in an abbreviated form, the general appropriations and expenditures for the year. Lists of permits issued, etc., are also appended.

The departmental force is listed on page 1 of this report. The only changes in personnel were as follows: Mr. Solomon Coburn was appointed Special Inspector vice Mr. John B. Walter, resigned. Mr. Robert H. Beauchamp, Inspector Northwestern District, vice Mr. William Butzler, resigned. Mr. Thos. L. Parks, Inspector Southwestern District, vice Mr. Henry Baker, resigned. I would respectfully call your attention to the inadequacy of the departmental force as now constituted. There is urgent need for an additional clerk for this department. The vast amount of detail work to be handled, the great variety of records and books to be kept, and the considerable funds to be disbursed and collected, aggregating $300,000 per annum, entail too great a variety and quantity of labor to be performed by one clerk to insure the best service to the corporation and the general public.

I have deemed it advisable and necessary to revise the system of accounts and book-keeping of this department. Returns are made to the City Register once each week instead of monthly as heretofore, and I have also caused an account to be opened against each school, engine house and other public buildings, so

as to facilitate the proper handling of each item, and for a valuable record of the physical condition of the structure. All books relating to this department were duly balanced at the close of the year and found correct.

There are also required two additional District Inspectors. It is physically impossible to cover the ground properly with but five inspectors allotted to the city proper and the augmented area acquired under the Annexation Act.

There have been but few violations of the building laws during 1898, and there is an evident disposition on the part of the building public to consult with the department before the initiation of work and to keep well informed of all laws and ordinances relating thereto. The strict enforcement of the law has thus entailed a better understanding of its provisions, and this understanding extends in many cases to those who are in no sense its violators.

Applicants for permits to improve or alter are requested now to file plans and specifications for the work in hand for careful examination by this department before the work is commenced. This system has relieved the department of much unnecessary litigation and delay, as well as having proved a benefit to those making improvements.

NEW SCHOOL BUILDINGS.

CITY COLLEGE.

North Howard Street, opposite Centre Street.

The erection of this building was authorized by Ordinance No. 56 of 1894, and Ordinance No. 123 of 1894.

The appropriations for same were:

Ordinance No. 56, 1894—From Six Million Loan		$117,000 00
" " 123, 1894—Levy		22,000 00
" " 33, 1895 "		15,000 00
" " 94, 1896 "		60,000 00
" 1898 "		100,000 00
Total		$314,000 00
Amount expended to date		163,924 59
Balance reverting to city treasury		$150,075 41

Many changes and betterments, as suggested by Mr. W. R. Hutton, Civil Engineer of New York, were carried out. The building could readily have been finished in the spring, but the additional cost of several thousand dollars for heating same, that the contractor might proceed with the plastering, would offset any advantage that might be derived by completing the building in a few months in advance, as it could not be occupied until the fall session of 1899, and this money could be used for the betterment of the building.

The building has been progressing favorably towards completion under the supervision of the architects, Messrs. Baldwin & Pennington, and Mr. Thomas E. Thompson, the special inspector appointed on the part of the city to inspect the work, and I refer you to their reports in detail under another heading.

GRAMMAR SCHOOL NO. 7.

Eastern Avenue and Patuxent Street.

The appropriations were as follows:

Ordinance, 1896—From Tax Levy	$30,000 00
" 1897, " " "	49,989 00
" 1898, " " "	38,000 00
Total	$117,989 00
Expenditures to date	63,596 75
Balance reverting to city treasury	$54,392 25

This building has been completed and is now occupied. The arrangement of class rooms, the sanitary features, the heating and ventilating plant and all other details connected with this structure are most creditable. No. 7 Grammar School is a model in every appointment and challenges in every detail similar structures in any of our more advanced sister cities. (See report of Superintendent of Construction).

NO. 18 ANNEX SCHOOL.

Linden Avenue and Konig Street.

The appropriations were as follows:

Ordinance,	1895—From	Tax	Levy		$35,000 00
"	1896	"	"	"	45,000 00
"	1897	"	"	"	41,053 05
"	1898	"	"	"	6,000 00
Total					$127,053 05
Expenditures to date					51,878 04
Balance reverting to city treasury					$75,575 01

The third story of this building has been completed, and divided into two assembly rooms, two class rooms, and two teacher's rooms as well as cloak rooms. (See report of Superintendent of Construction).

PRIMARY SCHOOL NO. 4.

Hanover and Lee Streets.

The appropriations were as follows:

Ordinance,	1895—From	Tax	Levy		$35,000 00
"	1896	"	"	"	34,695 74
"	1897	"	"	"	6,000 00
"	1898	"	"	"	2,118 45
Total					$77,814 19
Expenditures to date					40,147 35
Balance reverting to city treasury					$37,666 84

The third story of this building was completed and the space divided into four new class rooms and two cloak rooms. (See report of Superintendent of Construction).

NO. 11 TRUCK HOUSE.

North Avenue and Oliver Street.

Appropriation, 1898—From Tax Levy	$25,000 00
Amount expended to date	680 39
Balance reverting to city treasury	$24,319 61

Plans were prepared by Mr. Wm. M. Ellicott, Jr., the architect, for this new structure.

The erection of the building has been delayed owing to a dispute which arose concerning the lot.

The building is after the French Renaissance style of architecture, with well-proportioned tower. When erected this building will be an embellishment to our city owing to its especially artistic design and the completeness of its appointments.

REPAIRS, ETC., TO SCHOOL BUILDINGS.

A great amount of work, considering the limited means available for the purpose, has been accomplished in the way of repairing the old school buildings. They were sadly in need of attention, and it has been my earnest endeavor to make them at least habitable. I cannot too particularly emphasize the necessity for putting these houses of our children in the best possible condition at the earliest opportunity. I refer you to the detailed report of Inspector Coburn for further information under this heading.

CONDITION OF THE PUBLIC SCHOOLS.

These buildings are in need of extensive repairs. The appropriation especially designated for their use was in no sense adequate to their wants. Many of these old buildings require extensive alterations to make them fairly efficient. I would respectfully urge radical treatment, and to secure this especial legislation should be promptly enacted to cover the requirements.

VENTILATION.

Many of the schools are overcrowded, and are supplied with no means of ventilation whatever. Their condition in this particular is deplorable and a constant menace to the health of the occupants. This matter of ventilation can only be secured by liberal appropriations.

SANITARY CONDITION.

Upon my assuming the head of this department my first endeavor was to inform myself thoroughly of the condition of the old school buildings. After looking into the matter carefully I ascertained that no records had been kept of the repairs to schools

in detailed form, and that there was nothing to indicate the physical condition of each school, and the only opportunity of arriving at a concise knowledge of the state of affairs was to make a personal examination of each building, the total number running up into the nineties. The pressure of official business did not admit of so comprehensive an inspection of each building at that time, and I was fortunately relieved of the necessity of so extended a tour by receiving from the Arundell Club and the ladies of that organization, notably Mrs. Daniel Miller and Miss E. T. King, and also letters from quite a number of the principals of these schools, very exact reports of the need of a portion of these schools from a sanitary standpoint. After having sifted this information and tabulated it in proper form, I presented the result of my findings to His Honor Mayor Malster and received from him the authority and instruction to proceed at once with the preparation of plans and specifications, with a view to correcting these unhealthy and discreditable conditions prevailing.

I accordingly entered upon the work of preparing the necessary plans, and after completion of same upon receiving proposals for the work in due form, the labor of renovation was instituted.

A Sanitary Committee was appointed to review the work as it progressed and upon completion, composed of members of the press, ladies of the Arundell Club, leading architects and prominent citizens generally. Especial interest was manifested in this important rehabilitation of the schools, and the co-operation of the press was most generous and liberal in the way of informing the general public of the unhealthy state of affairs at the schools and the vigorous means employed to rectify the abuse.

This sanitary work has been executed in the very best manner and with the most approved materials, and is in marked contrast with the unsightly and unhealthy condition prevailing prior to its inauguration. I especially request your attention to a communication herewith addressed to me by the Sanitary Committee named herein, in which it has pleased them to endorse the work in most flattering terms after having made a careful personal inspection of same. Please note also the reports in detail describing the materials used and the work performed, as submitted by the Engineer of this department, and the Superintendent of Construction.

LETTER OF COMMITTEE.

"BALTIMORE, December 23, 1898.

"*Everett J. Dowell, Esq., Inspector of Buildings.*

"DEAR SIR: In pursuance of your policy of courting the criticism and co-operation of the citizens of Baltimore in the matter of sanitary improvements to schools, we have, at your invitation, examined carefully the work executed under your administration and supervision at various public schools of this city, and have also examined the statement of cost of the work as submitted by your department.

"We have to express great satisfaction with the improvements both from a scientific and mechanical standpoint, and the moderate cost of the installation of the work.

"We commend the good judgment displayed by you in the selection of the mechanics employed on the various branches of this work, as evidenced by the character of the workmanship and the sanitary results.

"Judging from the reports made by yourself, the Arundell Club, and others, as to the terribly unsanitary condition of these buildings prior to the making of these changes, we would also express our unqualified gratification at an approval of what has been accomplished by you in so short a time and at such small expense in the way of rectifying a state of affairs so dangerous to the health and morals of thousands of children of citizens of the City of Baltimore.

"Very respectfully yours,

"SANITARY COMMITTEE."

I would earnestly recommend the extension of this improvement so auspiciously commenced to all the schools where old cess-pools and privies prevail, and where the dry-closet system is inefficient.

HEATING OLD SCHOOL BUILDINGS.

The method of heating employed in a number of these old buildings is exceedingly primitive and in some instances menacing to safety. I have found in a number of cases that ordinary stoves are employed for this purpose. This is to be deprecated and all such cases should be taken in hand promptly, with the view of replacing all stoves with suitable furnace systems to be located in the basements, which should be excavated to the proper depth and otherwise prepared for the purpose where such basements are now found to be inadequate.

REPAIRS, ETC., TO ENGINE AND TRUCK HOUSES.

The principal items of repairs for the year 1898 will be found in the report of Inspector Coburn. These buildings are in need of prompt attention, and special provision should be made for their specific use, in the way of extensive repairs and the installation of better sanitary appointments.

DESIGNS FOR PUBLIC BUILDINGS.

I would particularly call attention to the advisability of employing only the most efficient and experienced architects in the preparation of plans for new public buildings. All public work of this character should be a model of artistic taste combined with practical appointments, this being the constant objective.

MARKET HOUSES.

These buildings are in most instances of large dimensions, and accordingly require liberal funds to keep them properly painted and otherwise protected from the elements. Their roofs and floors are especially subject to disintegration, and are in need of complete overhauling. I would, therefore, urge that more funds be granted for their use in future than has been the custom to award in the past. (See special report of Inspector Coburn for details.)

CITY HALL.

Much needed repairs and improvements have been done at this building during the year 1898. The Mayor's offices have been thoroughly overhauled and painted, the Department of Taxes has been enlarged by the acquisition of the old School Board room and by the removal of old vault, which space had been utilized for the cashier's department. Openings were cut through walls and counters extended and other important improvements were instituted, such as painting, electric lighting, etc. This department presents a fair idea of what could be accomplished in the way of making the City Hall presentable if funds were available to paint it throughout. The heating apparatus has been overhauled at considerable expense and is now in fairly good working order for a plant of antiquated design.

I would respectfully suggest again the advisability of constructing a fifth story to this building. Such a plan is entirely feasible and would enhance the appearance and utility of the building to a marked degree. When the considerable expense entailed in the rental of office facilities elsewhere for the use of the corporation is considered, such an extension of this building would seem imperative, owing to the evident economy in the matter of location as well as cost. I would especially recommend the enlistment of your serious consideration in this important feature.

NEW HYDRAULIC ELEVATOR.

Proposals were received, after duly advertising for same, for the removal of the old elevator at the City Hall and for the erection of a thoroughly modern hydraulic elevator. Ten thousand dollars ($10,000) was appropriated for the purpose and the contract was awarded to the lowest responsible bidders, Messrs. Bartlett, Hayward & Co., of this city.

The new elevator is located in the south courtyard of the building. The capacity of the car will be twenty people and the speed 300 feet per minute. It was necessary to construct a bridge on the fourth floor level to connect the east and west corridors of the building, owing to the fact that a defect in the design of the building prevented access from one of these corridors to the other. The old elevator has been a fruitful cause of apprehension and glaringly inefficient. The new structure will be completed about

the 15th of February next, and will be the most modern and efficient contrivance that could be secured in the market.

All labor and materials connected with this improvement have been the best of their several kinds.

COURT HOUSES.

These buildings have been repaired and renovated as far as the funds set aside for the purpose would allow. (See report of Inspector Coburn).

CITY JAIL.

Repairs and slight alterations have been made at this building, this department having furnished only the necessary superintendence of the work.

FIRE LIMIT.

A fire limit should be established by law in anticipation of all the provisions of the Annexation Act going into effect at the close of this century. This legislation should not be delayed a moment longer than possible.

INSPECTION OF FURNACES.

A vast amount of work has been done in this connection, and the importance of this office is accordingly far reaching. I refer you to the report of Mr. N. B. Shorey, Inspector, and to the tables bearing upon same.

ELEVATOR INSPECTION.

The necessity for the appointment of a competent Inspector of Elevators must be apparent to all. I would recommend that such an office is essential to possible security from accident, and that the official corps of this department be extended to embrace same.

ELECTRICAL INSPECTION.

A number of fatal accidents from low hanging lamps or improperly insulated wires, emphasizes the urgent need for an Inspector of Electrical Appliances.

An official whose business it should be to look carefully after all matters pertaining to electric lighting, generation of current, method of plant installation, etc., etc., should be promptly added to the official lists of this department.

I cannot close my report without calling especial attention to the large amount of work performed by my Assistant Inspector, Mr. George R. Bullen, and the energy and unremitting effort that he has devoted to the enforcement of all provisions of the law applying to his particular duties; and to the steadfast and faithful supervision of all new work by the Superintendent of Construction, Mr. M. O. Travers.

Many important and intricate problems of construction have been elucidated and carefully supervised by our Engineer, Mr. Francis H. Waters, and he has additionally assisted in preparing all plans and specifications for sanitary work.

Mr. N. B. Shorey, the Inspector of Furnaces, has been unremitting in his large field of work. His territory covers the entire City and Annex. His enterprise is clearly shown by tables submitted herewith.

Mr. Solomon Coburn, the Superintendent of Repairs, has had his hands full, as will be seen by his report in detail, appended hereto.

Mr. Alex. M. Montell, Clerk to the Department, has given his undivided attention to the many clerical duties and the diversity of accounts to be kept, and has been proverbially courteous in performing the work assigned to him.

The District Inspectors have covered the ground allotted to them in as satisfactory a manner as was possible when the extent of their duties is considered. For the details of their work I respectfully ask your attention to the comprehensive report of the Assistant Inspector, Mr. George R. Bullen, appended hereto.

I would say in conclusion that the successful termination of the year's work has been greatly due to the complete harmony prevailing among my corps of assistants, and their earnest co-operation with each other and myself to secure a thoroughly systematic and efficient conduct of the affairs of the department.

I particularly desire to express to Your Honor, my sincere appreciation of and gratitude for your hearty co-operation and support in all matters affecting the efficiency of this department, in its varied business relations, and the uniform courtesy of members of Council and the various heads of departments.

TABLES.

The annexed tabular statement will show—

A. The amount of appropriations and disbursements for the year 1898.
B. Receipts of the department for the year 1898.
C. Showing the number of permits issued for new buildings.
D. A list of condemnations, violations, etc.

Respectfully submitted.

EVERETT J. DOWELL,
Inspector of Buildings.

TABLES.

TABLE A.

Showing Appropriations and Disbursements for the Year 1898.

Account.	Appropriations.	Expenditures.	Balance.
Repairs of school houses	$ 30,000 00	$ 29,999 50	$ 50
Repairs of city property	15,600 00	15,585 05	14 95
Sanitary and other improvements	20,000 00	20,000 00	
Emptying cess-pools	800 00	800 00	
Incidentals	400 00	400 00	
Livery and transportation	500 00	500 00	
Salaries	15,100 00	15,100 00	
Building Western Female High School	5,257 45	5,257 45	
Building Baltimore City College, tax levy of 1898	100,000 00	46,969 59	53,030 41
Building Baltimore City College, balance from loan	15,435 95	15,435 95	
Building No. 4 Primary School	2,118 45	1,290 41	828 04
Building No. 18 Annex School	6,000 00	3,892 81	2,107 19
Building No. 9 Colored School	2,158 14	556 00	1,602 14
Building No. 7 Grammar School	38,000 00	37,774 56	225 44
Building No. 3 Annex School	3,143 40	1,110 52	2,032 88
Building No. 20 Engine House	682 54	679 00	3 54
Building No. 21 Engine House	1,059 89	389 65	670 24
Repairs of city property (Annex)	3,500 00	3,500 00	
Salaries (Annex)	1,200 00	1,200 00	
Livery (Annex)	250 00	250 00	
Building No. 11 Truck House	25,000 00	680 39	24,319 61
New Elevator, City Hall	10,000 00	4,548 70	5,451 30
Room for additional judge in temporary Court House	200 00	200 00	
Repairs to city property, deficiency from 1897	241 05	238 55	2 50
Totals	$296,646 87	$206,358 13	$90,288 74

TABLE B.

Showing the Receipts of this Department for the Year 1898.

Advertising	$ 307 00
Bay-windows	150 00
Frame sheds	3,188 92
Frame extensions in rear	1,215 00
Bath-rooms	514 00
Vaults and areas	1,557 35
Tapping sewers	240 00
Awnings	352 00
Totals	$7,524 27

KEY TO TABLE B.

Showing the Receipts of this Office by Months, from January 1 to December 31, 1898.

	Bay-windows.	Frame Sheds.	Bath-rooms.	Vaults and Areas.	Tapping Sewers.	Advertising.	Awnings.	Frame Extensions in Rear.	Totals.
January		$92 75	$28 00	$12 00					$132 75
February	$10 00	107 00	2 00	1 20		$39 00	$8 00	$16 00	183 20
March		129 25	38 00	33 20		13 00	32 00	72 00	317 45
April		388 75	14 00	65 40		18 00	68 00	110 00	664 15
May		162 50	54 00	25 70		18 00	84 00	158 00	502 20
June		190 00	70 00	164 35		62 00	68 00	150 00	704 35
July	10 00	242 75	114 00	19 20	$80 00	18 00	16 00	83 00	582 95
August		124 00	16 00	24 15			20 00	78 00	262 15
September	10 00	159 50	28 00	211 20	40 00	5 00	28 00	32 00	513 70
October	100 00	170 50	64 00	877 05	40 00	13 00	8 00	58 00	1,330 55
November		1,251 57	10 00	118 50	80 00	46 00	8 00	206 00	1,720 07
December	20 00	170 35	76 00	5 40		75 00	12 00	252 00	610 75
Totals	$150 00	$3,188 92	$514 00	$1,557 35	$240 00	$307 00	$352 00	$1,215 00	$7,524 27

TABLE C.

Showing the Number of Permits Issued in 1898 for New Buildings in Old Twenty Wards.

	Brick Dwellings.	Brick Additions.	Warehouses, Stables, Stores, etc.	Improvements.	Churches.
January	69	15	12	2	.....
February	181	25	6	6	.....
March	145	33	19	6	1
April	121	31	7	12	1
May	50	34	8	7	2
June	232	28	8	9	.....
July	124	24	9	3	.....
August	56	34	8	9	.....
September	128	36	11	10	.....
October	132	49	7	13	.....
November	99	25	4	9	.....
December	29	13	3	8	.....
Totals	1,366	347	102	94	4

Showing the Number of Permits Issued in 1898 for New Buildings in the "Annex," or Twenty-first and Twenty-second Wards.

	Brick Dwellings.	Frame Dwellings.	Brick Additions.	Warehouses, Stables, Stores, etc.	Frame Additions.	Improvements.	Churches.
January	62	15	1	.....	.....	.....	.....
February	41	8	1	.....	3	.....	.....
March	54	7	4	1	2	.....	.....
April	12	9	3	1	4	.....	.....
May	28	5	4	.....	7	.....	.....
June	36	9	1	.....	2	.....	1
July	115	1	2	1	3	.....	.....
August	30	17	.....	4	3	.....	1
September	25	12	3	1	14	2	1
October	57	3	3	.....	5	.....	2
November	18	9	.....	3	5	.....	1
December		46	2	2	1	.....	.....
Totals	478	141	24	13	49	2	6

TABLE D.

Showing the Number of Condemnations, Violations, etc.

Buildings condemned	22
Walls "	126
Chimneys "	71
Violations of the building laws	58
Notices to repair rain spouts, fences, awnings, etc	172
Total	449

REPORT OF ASSISTANT INSPECTOR OF BUILDINGS.

DEPARTMENT OF BUILDINGS,
BALTIMORE, January 3, 1899.

Everett J. Dowell, Esq., Inspector of Buildings:

SIR: I have the honor to submit herewith my annual report as Assistant Inspector of Buildings for the year ending December 31, 1898. As you are aware, the duties of the position are numerous, and whilst I have endeavored to supervise all the work being done by the District Inspectors, I have not been able to give it the attention it demands. The clerical force of this department is inadequate owing to the improved system of account and book-keeping introduced by yourself, which has added much additional labor, therefore it is an impossibility for one clerk to properly attend to the needs of the department, consequently I have been required to assist Mr. Alex. M. Montell, Clerk, in performing such duties as the needs of the department required. I especially call your attention to the amount of work accomplished by the department, viz.: The issuing of permits for new buildings, brick additions, alterations, sheds, etc., notices of condemnation and violation, notices to repair, etc., also the amount of work examined by the District Inspector during the year.

NEW BUILDINGS.

The amount of work done in the city will compare favorably with 1897, but there has been considerable falling off in building in the Annex. (See Table). I have examined applications and issued permits for the following buildings and improvements during the year 1898:

CITY.

	1898.	1897.
Brick dwellings	1,366	1,263
Brick additions	347	403
Warehouses, stores, stables, etc	102	111
Improvements	94	127
Churches	4	5
Total	1,913	1,909

ANNEX.

	1898.	1897.
Brick dwellings	478	1,192
Frame dwellings	141	237
Brick additions	24	14
Warehouses, stores, stables, etc	13	.....
Frame additions	49	20
Improvements	2	.....
Churches	6	5
Total	713	1,468

Included in the above are several large buildings and churches, namely:

Christ Reformed Church, northwest corner North and Druid Hill avenues.
Sharp Street A. M. E. Church, northwest corner Dolphin and Etting streets.
Bohemian Presbyterian Church, Washington street and Ashland avenue.
Saviour's Mission Church, Elm avenue, near Third avenue.
Grace M. E. Church, Hickory and Third avenues.
Holy Rosary Church, Eastern avenue, near Broadway.
St. Patrick's Church, Broadway and Bank street.
Colored Baptist Church, Saratoga, near Mount street.
Commonwealth Bank, Eutaw and Madison streets.
Old Town Savings Bank, High and Gay streets.
Massachusetts Building, Charles and Fayette streets.
Crown Cork and Seal Company, Guilford and Girard avenues.
Germania Brewing Company, Frederick road.
Carroll Spring Distilling Company, 815 Frederick avenue.
Consolidated Railway Company, Irvington.
Lerch Bros., Hanover street, near Lombard street.
Globe Brewing Company, Hanover street, south of Camden street.
Cox & Son, Bank and Chapel streets.
Forrest Inn Hotel, Liberty road and Forrest avenue.
Matthai, Ingram Co., Light and Wells streets.
Keen & Hagerty, Race and Ostend streets.
F. X. Ganter, Leadenhall and Ostend streets.
P. Kennedy & Co., Wells and Hanover streets.
Wm. Numsen & Co., Jackson street and Fifth lane.

I have had the following buildings, walls, chimneys, etc., examined by the District Inspectors and sent out the following notices:

Buildings condemned	22
Walls "	126
Chimneys "	71
Violations of the building law	58
Notices to repair rain spouts, fences, awnings, etc.	172
Total	447

PERMITS.

I have examined applications and had permits issued for the following privileges during the year 1898:

Sheds	811
Frame extensions, porches, etc	608
Bath-rooms	257
Bow-windows	152
Boilers	21
Awnings	88
Permits to repair sheds, awnings, etc	1,159
Total	3,096

NUMBERING HOUSES.

During the year the department has numbered about 1,250 new buildings and renumbered 358 old buildings. There is now an ordinance pending before the Mayor and City Council to extend the decimal system into the annexed portion of the city. If the same becomes a law I would suggest that especial appropriation be made to carry out the requirements of the ordinance, as it will involve a great amount of time and labor to properly perform the work and at this time our force is wholly inadequate to perform any additional duties other than the regular routine business.

I most respectfully call your attention to the amount of work accomplished by the District Inspectors.

NORTHWESTERN DISTRICT—ROBERT H. BEAUCHAMP, *Inspector.*

The number of permits issued for new brick dwellings in this district was 86, frame dwellings 4, brick additions 47, unfinished houses 93. Whilst the amount of new building has fallen off considerably in this district during the year 1898, there has been a great amount of work done in the way of frame sheds, frame

extensions, old walls which were condemned, repairing of sheds, etc., which required more attention than a row of new buildings. I am pleased to report that everything has been carefully looked after by Inspector Beauchamp, and he has had the hearty support of nearly all the builders in carrying out the Building Laws.

NORTHEASTERN DISTRICT—JOHN P. TEAL, *Inspector.*

The amount of new building has increased very much during the year, especially in the erection of dwelling houses, for which 518 permits were issued. There were also issued permits for 138 brick additions and 32 warehouses and business buildings. There have been quite a number of permits issued for frame sheds in this district, all of which would involve a great amount of time and labor in properly supervising this work. There have been several large warehouses and office buildings started in this district during the latter part of the year which will require the special attention of the District Inspector.

SOUTHWESTERN DISTRICT—THOMAS L PARKS, *Inspector.*

The amount of new building in this district has fallen off considerably. Permits issued for 286 brick dwellings against 561 during the year 1897, but there has been a considerable number of permits for frame sheds issued, and dangerous walls to be looked after, so it really consumes more time to look after same than a large number of new buildings. I have personally examined the work in this district and am pleased to report everything to be in a good condition. Mr. Parks has experienced very little trouble in having the Building Law enforced, as he has had the hearty support of most of the builders in his district.

SOUTHEASTERN DISTRICT—JOHN H. HORNER, *Inspector.*

The amount of new building in this district has increased considerably over that of 1897; nearly 150 more dwellings were erected than in the year 1897, and a number of large warehouses were erected which required a great amount of attention. Inspector Horner reports that he has examined 359 brick dwellings, 89 brick additions, 8 warehouses, 420 frame sheds, in addition to

the examination of dangerous walls, chimneys, spoutings, etc. As this district is a very large one, extending from Highlandtown to Howard street, and from Baltimore street to the water front, it has required a great amount of labor to properly fulfill the duties of the position, but I take pleasure in reporting the work to be in an excellent condition.

ANNEX DISTRICT—J. FRANK CROWTHER, *Inspector.*

As I stated in my report of last year this district embraces fully one-half of the annex territory, and is too large a territory for one man to properly attend to, and had it not been that the number of new buildings had fallen off considerably it would have been impossible for Inspector Crowther to have given it all the attention it would have required. Inspector Crowther reports that he has examined 283 new brick buildings, 92 frame dwellings, 672 unfinished dwellings from 1897, 67 brick and frame additions, besides frame sheds, extensions, alterations, dangerous walls, etc. The amount of new buildings in this district has fallen off considerably during the year 1898, but it has necessitated a great amount of time and labor on the part of Inspector Crowther to properly attend to his territory as his work is greatly scattered. I am pleased therefore to state that he has fulfilled his duty well, as his work will prove.

In conclusion I take pleasure in reporting that there has been less disposition manifested by speculative builders to avoid compliance with the Building Law; only three or four warrants were issued for violations of law. I would respectfully call your attention to the fact that the Annexation Act of 1888 has nearly matured and will require special laws. I would therefore urge you to take prompt action preparatory in having the Mayor and City Council revise the existing Building Laws that we may be able to meet any emergency that may arise.

In closing my report I feel compelled to state that the District Inspectors and all officials of this department join me in expressing our appreciation and gratitude for the uniform courtesy and kindness extended to each by you at all times.

Respectfully submitted.

GEORGE R. BULLEN,
Assistant Inspector of Buildings.

ARCHITECTS OF THE CITY COLLEGE.

BALTIMORE, January 3, 1899.

Everett J. Dowell, Esq., Inspector of Buildings:

DEAR SIR: As requested, we hand you herewith a report upon the City College Building up to present date.

This work was placed under our direction by the Building Commission in June, 1894. The general contract for the building was made with the contractor, Mr. H. S. Ripple, February 1, 1895.

The work was carried on until the following March, when the city ordered all work stopped against our advice or approval. From that time to the end of 1897 various reports were made upon the situation, which ended in a report made to the city by Mr. W. R. Hutton, civil engineer, of New York, the result of which we get from the press publications.

Mr. Hutton gave his opinion that the walls and foundations were sufficient, and he did not think underpinning to be necessary.

He also suggested certain changes in the way of betterments. We fully agreed with these, but in each case it was a matter of additional expenditure.

At the commencement of the present year of 1898 His Honor Mayor Malster requested us to take up this matter and report to him the condition of the premises, which report we made March 24, 1898.

We were directed to get the work in proper shape and proceed with same as under the original contract.

We found that during the two years that had passed since we had control and direction of the work that considerable damage has been caused by the unnecessary delay to the work throughout the building, and considerable prejudice had been created in the public mind by the unfavorable reports caused to be published from time to time.

After an examination of the building we found the levels had not changed during the two years past, and we did not see any reason to change our opinion given some two years before, and concurred in by five of our most experienced builders, that the work was substantial, and there was no reason to prevent it being pushed to a satisfactory completion.

The city had been advised by parties not familiar with the premises to spend some $6,000 in underpinning the foundations, all of which we advised to be entirely unnecessary and would only be a waste of public money. Mr. Hutton's report and the delay has saved this further waste or unnecessary expenditure.

On account of the delay and unnecessary publications considerable doubts as to the work had been caused, and to satisfy the public as far as practical we advised that the recommendations of Mr. Hutton be carried out, which has been completed with the other work during the past year, as follows:

All the damage done to the work caused by the delay has been repaired.

All claims for damages on account of the same cause have been adjusted, and the general work of the several contracts has made satisfactory progress.

As a matter of precaution the entire foundation of the south wing, on Howard street, has had the earth excavated some five feet below the bottom of footings. These footings we found on good, sound sand and, in our opinion, perfectly satisfactory. On each side of this wall has been filled in with heavy beds of "Portland cement," concrete to a point some nine feet six inches below grade.

The lower band courses on the outside of the building, which were of terra cotta, have been taken out and replaced by stone.

The wooden stairways have been changed to iron.

That part of the building over the heating apparatus and fuel rooms has been made fire-proof.

A thorough system of drainage, with intercepting wells and sewers, has been constructed around the building and all connected with the large sewer.

The cast iron columns, etc., have been changed to wrought steel.

All of this work, with many other small items made necessary from time to time, has been carried out after a full and comprehensive understanding with you in reference to the same, and in this connection we beg to express our appreciation for the prompt and cordial manner in which you have co-operated with us in the matter, also the close attention given to the many complicated details. The result to date is that the work is well under way, and can be completed in all respects as originally intended by July next, if so desired.

The adjustment of all damage done to work and all claims on account of the unnecessary delay and the many betterments you will observe from statement of November 26, 1898, amount to $32,000, being about one-half of the amount asked for last year for the proposed unnecessary underpinning of good foundations, all of which saving we think the city has obtained, in a great measure, by the close and practical way in which the present city executive, with your co-operation, has enabled us to proceed in the premises.

The statement before mentioned of November 26, 1898, also shows a number of items which we have mentioned which would be a great benefit to the building to equip it in a more convenient and modern manner, also for completing and putting in proper shape the outside surroundings, such as grading, paving, etc., some of which we hope the commission will be able to carry out, so that next summer the building and surroundings can all be completed and ready for occupation in the autumn.

Thanking you for your courtesy and co-operation you have at all times shown us, we are,

Very truly yours,

BALDWIN & PENNINGTON, *Architects.*

SUPERINTENDENT OF THE CITY COLLEGE.

BALTIMORE, January 3, 1899.

Everett J. Dowell, Esq., Inspector of Buildings:

SIR: I have the honor to make the following report for the year ending December 31, 1898, as follows:

I was appointed to my position as Superintendent of the City College on July 11, 1898. I was handed the drawings by you to examine, which I did carefully. On the 14th inst. paid a visit to the college building and carefully made an examiation of the entire building, noting what I termed defects which needed remedying. I did not find the building in anything like the bad condition which I had been lead to believe existed from the public reports and the press to that effect. In fact I found nothing but what could be practically remedied by skill and a fair expenditure of funds, in part as follows:

1st. Reinforcing of the foundation.

2d. Strengthening of the iron supports for floors, etc.

3d. Fire-proof stairways.

4th. Removing the terra-cotta work and replacing same with stone.

5th. Bridging of the timber floors.

6th. Plastering with King's Windsor cement in place of common mortar.

7th. Changing the course of the drain-pipe so as to keep the water from the foundation.

All of these improvements have been made.

I will also state that there are other improvements going on which will greatly add to the convenience and stability of the building, as follows:

1st. Extension of the basement toilet room.

2d. Raising of the elevator shaft to the top story.

There are other improvements in contemplation which if carried out will greatly add to the merits of the building and bring it up to date.

The metal ceiling in the assembly room is of a very elaborate design, as well as the wall finish, and in my judgment it gives a most excellent chance to please and satisfy the public's criticism by having the ceiling and walls artistically painted and frescoed. I wish you would personally interest yourself with this suggestion.

The carpenter's work is progressing as well as circumstances will permit.

As a result of your special and repeated instruction, the lumber, etc., has been kept fully up to the requirements of the specifications, as well as the workmanship, as I have in all cases enforced your orders to do the work in the best manner possible.

The other branches of the work are going on and are nearing a state of completion as fast as circumstances will permit. I think the building will be completed by the first of August, 1899, provided there are no delays through lack of sufficient funds or appropriations.

In conclusion, I will state that I feel that I must thank you for your hearty co-operation and sincere interest in all the matters pertaining to the college building.

Respectfully submitted,

THOMAS E. THOMPSON, *City Supt. Balto. City College.*

(For details consult my book of daily reports.)

ENGINEER'S REPORT.

BALTIMORE, January 3, 1899.

Everett J. Dowell, Esq., Inspector of Buildings:

SIR: I have the honor to report herewith upon the work coming under my supervision.

Pursuant to your instructions, in company with the Superintendent of Construction for this department, I visited a number of the old school buildings of this city, with a view of the preparation of plans and specifications for the improvement of the sanitary condition of these old buildings.

The appropriation set aside for this work would only cover the rehabilitation of nine school buildings, and careful estimates of the cost were submitted to you prior to the initiation of the work.

The schools selected from the list of those submitted to you, where the urgent necessity for immediate action was apparent, were as follows:

Temporary City College, Pennsylvania avenue and Dolphin street.

Eastern Female High School, Orleans and Aisquith streets.

No. 15 Grammar School, Lexington street and Carrollton avenue.

No. 14 Primary School, Linden avenue and Wilson street.

No. 11 Primary School, Gilmor and Mosher streets.

No. 5 Grammar School, Greenmount avenue and Eager street.

No. 23 Primary School, Gough and Wolfe streets.

No. 2 Grammar School, Broadway and Bank street.

No. 16 Grammar School, Hull and Clement streets.

Plans and specifications were accordingly prepared by me for the sanitary improvement of each of the foregoing school buildings. These plans called for the best obtainable ventilated flushing

latrine or closet range, slate urinals, cement floors, adequate light area, new means of egress and entrance to the closet rooms, new ceilings, the necessary 3-coat painting, the much desired and indispensable direct connection to city sewers, the heated stacks to secure local ventilation of the sanitary fixtures and the closet rooms combined, and all other details intended to secure the most up-to-date plant that could be devised with the means at hand.

The ventilated flushing latrine was accepted for installation in this work, because of its evident superiority over other competitors. This latrine combines the principles of the syphon and flush closet, and is locally ventilated in the most approved manner. The trough is of cast iron, enameled on inside and with depressions under each seat to admit of standing water one inch deep, and with independent local ventilation for each closet apartment. Automatic flushing of the latrine is secured by means of a tank at one end which dumps by gravity, and which can be made to flush at any interval of time desired, insuring perfect cleansing of the trough from end to end.

The latrines that have been in use for the past two (2) years in one of our old school buildings have not cost one dollar for repairs, and the ventilation is as perfect today as when the new system was instituted.

The old privies in yard have been removed, and the cess-pools have been filled with pure earth after having been cleaned out and disinfected, at all the buildings noted above, and the occupants of these schools are now provided with clean and tidy lavatories in place of the former unhealthy and unsightly privies which were located in the rear of yards.

The character of the workmanship and the materials furnished or the installation of this important work was the best obtainable in the market.

I would respectfully recommend that especial effort be directed this year towards the remodelling of ten or twelve of the old school buildings on the same basis and in the same manner as that pursued in regard to those already mentioned. Those most in need of sanitary improvements should be selected after careful

inspection and comparison, and the money available for the purpose applied promptly towards their rehabilitation. The old cesspools, and in some cases the "dry-closets system" are an ever increasing detriment to the health and efficiency of the buildings where they prevail, and should be dispensed with at the earliest possible moment.

I have no hesitation in saying that the sanitary work installed under your administration and supervision compares favorably with that executed in the best private practice, and is far in advance of any similiar work installed heretofore in connection with this department. It possesses the additional advantage of being a permanent improvement, not a makeshift, and will undoubtedly establish a standard for school sanitation which I am sanguine will be faithfully adhered to so long as public discussion of such important and vital matters is encouraged and enlisted in their behalf. The principals of the schools where these sanitary improvements have been inaugurated are unqualified in their praise of the cleanly and healthy features which obtain in so pronounced a degree.

NEW ELEVATOR—CITY HALL.

This new structure is being erected in accordance with the plans and specifications. The materials used are the best of their several kinds.

In my weekly reports were given a succinct account of the progress of the work from its inception. Barring unforeseen contingencies the elevator will be in operation by the tenth day of February next, and will fill a serious gap in the comfort and efficiency of this building.

NO. 7 GRAMMAR SCHOOL—HEATING.

The heating and ventilating plant at this building was designed by our consulting engineer, Mr. Henry Adams. The indirect steam heating method is employed, with plenum ventilation and automatic temperature regulation. The plant has not yet been finally accepted from the contractors, Messrs. Crook, Horner & Co., as the contract provides for a guarantee of one heating season as a test of efficiency, and the time will not expire until spring.

Mr. Adams has given us the most economical and compact design for this apparatus that has been installed at any school building in this city to date.

I desire in conclusion to express my sincere appreciation of your equitable and honorable treatment of me at all times in every relation of business transacted during your incumbency as chief of this department.

Respectfully submitted.

FRANCIS H. WATERS, *Engineer.*

SUPERINTENDENT OF CONSTRUCTION.

BALTIMORE, January 3, 1899.

Everett J. Dowell, Esq., Inspector of Buildings:

SIR: I have the honor to make the following annual report:

While no new school buildings have been started this year considerable work has been done in completing No. 7 Grammar School, Eastern avenue and Patuxent street; No. 4 Primary School, Hanover and Lee streets; No. 18 Annnx School, Linden avenue and Konig street, and the nine schools in which the sanitary improvements have been made.

No. 7 Grammar School.—At the beginning of the year 1898 the roof was being put on and the building was finished September 5, 1898. It is a three-story brick building, 80 feet by 143 feet, with granite ashlar, Indiana limestone and gray terra cotta sills and trimmings. The fronts are faced with sand bricks laid in white mortar.

It is divided into twenty-three (23) class rooms—teachers, reception and coat-rooms for each class-room. The halls of the first floor, stairways and landings on the second and third floors are fire-proof. The stairways and halls are of ample width and furnish easy exit to the three streets by which the building is bounded.

The floors are of two thicknesses with felt paper between, the top floor being edge grain Georgia. All the interior wood-work except the inside doors and sash is plain oak. The doors and sash are of clear white pine.

All this work is finished in hard oil rubbed to a smooth surface. The floors of the three vestibules are laid in "Mosaic." The interior walls throughout the three upper stories of the buildings are sand-finished above the chair board, and gray soapstone finished below.

The floor of the cellar is of cement. Owing to the addition of the coal vault under the front pavement and the small space occupied by the heating plant, there are five large rooms in the cellar that can be used as play-rooms in bad weather.

Heat and power to run the ventilating fan and pumps are furnished by two boilers in the cellar. The indirect heating system is used with Thermostat regulators to maintain a uniform temperature in all the rooms. The water-closets are located in the cellar. The American Latrine System is used with local ventilation to the main stack, which is always heated. In addition to this, these rooms are connected at the ceiling with flues heated by steam coils, thereby securing perfect ventilation of the rooms as well as the fixtures. I would here mention the fact that the "Latrine System" has been in use in several of the city schools and have given perfect satisfaction, both in sanitary features and in point of economy; the air in the rooms being always pure and the fixtures up to the present time requiring no repairs. It will be well to pave the remainer of the yards as soon as practicable, as the clay soil from the unpaved portion is washed over the part already paved and is carried by the children into the building.

It is to be hoped that the two streets at the sides may soon be paved, as the mud from them is a great annoyance.

No. 18 Annex School.—During vacation the third-story of this building was finished. It contains two large assembly-rooms, two class rooms, with coat-rooms and two teachers' rooms. The finish (painting, plastering, etc.,) corresponds to the work in the lower stories. In addition to this a basin was put in the principal's room on the first floor and a stove to heat water for cleaning, and storm-doors were also put on the two entrances on Konig street. The work was finished in time for the opening of the school in September. Later the remainder of the yards were paved.

No. 4 Primary School.—The work of finishing the third-story of this building was commenced in July. It was first divided into two assembly-rooms, which were afterward subdivided into four class-rooms at the request of the School Board.

This last division made it necessary to change the arrangement of ventilating ducts. The coat-rooms were also put in the stair-halls for the use of the new class-rooms. The work was finished in August. Later a new fence was built on the Hanover street front, on the building line, giving more room in the yard; the remainder of which was also paved.

Temporary City College, Pennsylvania avenue and Dolphin streets.—The old Smead system of closets was removed and the latrines installed. Connection was made with the sewer on Pennsylvania avenue, and the old floors were replaced by cement. A slate urinal was also put up with proper ventilation to heated stack. The cost of this work was small, from the fact that the rooms required little change, the stacks and heaters being already in the building, and the sewer connection short. The work was done during vacation and the system is working satisfactorily. The sanitary condition was very bad before the improvements were made.

No. 2 Grammar School, Broadway and Bank street.—Here, as at the temporary City College, the Smead system of closets was removed and the floors cemented The stacks and heaters were already in place. Owing to greater changes being made in plans of the rooms and a greater length of sewer, the installation of the latrine system involved considerable more work, which will account for the difference in cost. The work was done during July and August.

No. 15 Grammar School, Carrollton avenue and Lexington street.—Room was partitioned off in the cellar; ventilating stack and areas built, and the floors cemented before the sanitary fixtures could be put in place. The old sewer was in such bad condition a new one had to be laid to the city sewer.

Windows were also cut in front wall of cellar which greatly improves the light and ventilation of the cellar. This work was also done during July and August.

No. 16 Grammar School, Hull and Clement streets.

No. 14 Primary School, Linden avenue and Wilson street.

No. 23 Primary School, Gough and Wolfe streets.

The above schools were also furnished with improved sanitary fixtures during summer vacation.

As the work done was about the same as at No. 15 Grammar School, further description is not needed.

Later on the same improvements were put in the Eastern Female High School, No. 11 Primary Schooi and No. 5 Grammar School.

Eastern Female High School, Aisquith and Orleans streets.—The fixtures were placed in the basement; a part of the bonnet-room being partitioned off for the purpose, and the bonnet-room enlarged to the extent taken off. A stack for ventilation was also built, a window cut through the rear wall, floor cemented and new basins put in the bonnet-room.

No. 5 Grammar School, Greenmount avenue and Eager street.—The sanitary improvement made at this school was about the same as at No. 15 Grammar School, with the exception that no stacks were built.

No. 11 Primary School, Gilmor and Mosher streets.—This work was finished a few weeks since. On account of the grade of the yard, larger areas and a deeper sewer were required; also two stacks instead of one as at the other schools where the improvements were made. Two stairways were put up, giving an inside entrance to the closet-rooms. This is very desirable, particularly in the primary schools. If a window was cut in the partition over the stair on the girl's side it would greatly improve the light.

West Arlington Water Tower.—The brick and stonework is now nearing completion. The stand-pipe has been finished for months, and water is being supplied to the surrounding property.

Bay View Asylum.—In April a new hospital building was commenced, and it is now in use. It is a two-story brick structure, having good light and ventilation, with ample stairways and good lavatories and sanitary improvements. This building does away with the old frame building located quite a distance from the main building, and it adds much to the safety and comfort of the patients.

A frame addition has also been built to the present gate-house. This work, as well as the painting, was done by the inmates. Much of the other work of the hospital is also done by the inmates. A boardwalk has also been laid from the gate to the main building, which is lighted at night by electricity. The gate-house has been painted and the fence at the entrance changed, which adds greatly to its appearance.

Mt. Royal Pumping Station.—This building is nearly completed; the stone is practically finished except the stack, which could not be finished on account of the cold weather.

The setting of boilers, engines and pumps is far advanced toward completion.

The above report, with numerous examinations of private buildings for improvements and safety, go to make the sum of the year's work in this branch of the department.

Respectfully submitted,

M. O. TRAVERS, *Superintendent of Construction.*

REPORT OF SUPERINTENDENT OF REPAIRS.

BALTIMORE, January 3, 1899.

Everett J. Dowell, Esq., Inspector of Buildings:

DEAR SIR: I have the honor to make the following report of repairs done under my supervision during the year 1898. The number of examinations made of repairs, etc., to schools, engine and market houses, and other city property, is 1,972. This has been a very laborious year in this department owing to the school houses and public buildings being in such condition that repairs were not only necessary but compulsory.

The following is a list of repairs:

No. 1 Male Primary and Grammar School.—Roof painted, new chimney caps, all outside woodwork painted, new floor and stairway, sash chain and glass in windows, locks, keys and hinges to doors.

No. 1 Female Primary and Grammar School.—Roof painted, all woodwork inside and outside painted, floors and partitions repaired, new water supply to hydrants, soil and waste pipes from water closet repaired, sash chain and glass in windows, lock, keys and hinges to doors.

No. 2 Grammar School.—Roof painted, new floors in corridor, glass and sash chain in windows, locks, keys and hinges to doors.

No. 3 Primary and Grammar School.—All woodwork inside and outside painted, two new floors in class rooms and the other floors repaired, sash chain and glass in windows, fences repaired, yard paved, locks, keys and hinges to doors.

No. 4 Grammar School.—Roof painted, all outside woodwork painted, hydrants repaired, new urinal trough, glass and sash chain in windows, locks, keys and hinges to doors.

No. 5 Grammar School.—Roof painted, all woodwork inside and outside painted, yards repaved, one new hydrant and one repaired, glass and sash chain in windows, locks, keys and hinges to doors.

No. 6 Grammar School.—All woodwork inside and outside painted, front brickwork oiled and penciled, water closet seats, water closet roof repaired and painted, yard paved, new lettering on front transom, glass and sash chains in windows, locks, keys and hinges to doors.

No. 7 Grammar School.—This is a new building just finished and is first-class in every respect.

No. 8 Grammar School.—New hydrants, ceilings repaired, stairways repaired, glass in windows. The Annex—Painted outside, new hydrants, glass in windows, joists cut away from smoke-pipe in cellar.

No. 10 Grammar School.—Yards and front pavement repaired, glass and sash chains in windows, locks, keys and hinges to doors.

No. 11 Grammar School.—Roof painted, all woodwork inside and outside painted, floors repaired, glass and sash chain in windows, down spout repaired, locks, keys and hinges to doors.

No. 12 Grammar School.—Roof painted, outside woodwork and ceilings painted, floors, ceiling and washstand pipe repaired, glass and sash chains in windows, locks, keys and hinges to doors.

No. 13 Grammar School.—Roof painted, woodwork on outside painted, floors repaired, two new floors in class rooms, glass and sash chains in windows, locks, keys and hinges to doors.

No. 15 Grammar School.—All woodwork painted inside and outside, glass and sash chains in windows, hydrants repaired, yard paved, locks, keys and hinges to doors.

No. 16 Grammar School.—Roof painted, glass and sash chains in windows, yard paved, locks, keys and hinges to doors.

No. 17 Grammar School.—Ceilings painted, floors repaired, glass and sash chains in windows, pavement repaired, locks, keys and hinges to doors.

No. 18 Grammar School.—New partition on second floor, new washstand, new hydrant, paving yards, glass in windows, windows and doors repaired.

No. 19 Grammar School.—All woodwork inside and outside painted, floors and roof repaired, glass and sash chains in windows, locks and bolts on doors.

No. 20 Grammar School.—Roof painted, wainscoating on stairway and floors repaired, glass and sash chains on windows, doors and windows repaired.

No. 21 Grammar School.—All woodwork inside and outside painted, water closets repaired, glass and sash chains in windows and locks on doors.

No. 22 Grammar School.—Roof repaired, glass and sash chains in windows, shutters repaired, locks to doors and fastenings to shutters.

No. 2 Primary School.—Roof painted, all woodwork inside and outside painted, new floors, roof repaired, glass and sash chains to windows, cellar door repaired, yard paved and locks to doors.

No. 4 Primary School.—Glass in windows, new water supply to sanitary closets, yard paved, new fence, and fence extended on north front, drainage to sewer repaired.

No. 5 Primary School.—Roof painted, yard paved, glass and sash chains in windows, water closets repaired, locks to doors.

No. 6 Primary School.—Roof painted, all woodwork inside and outside painted, galvanized smoke pipe repaired, glass and sash chains in windows and locks to doors.

No. 7 Primary School.—Roof painted, woodwork inside and outside painted, new chimney caps, glass and sash chains in windows, locks on doors.

No. 8 Primary School.—Roof painted, ceilings painted, floor repaired, glass and sash chains in windows, shutters, window frames and pipe to washstand repaired, walls replastered, locks to doors.

No. 10 Primary School.—Hydrants repaired, glass and sash chains in windows, locks to doors.

No. 11 Primary School.—Roof painted, all woodwork inside and outside painted, floors repaired, glass and sash chains to windows, locks to doors and fastenings to shutters.

No. 12 Primary School.—Roof painted, outside woodwork painted, hydrants repaired, new washstand, glass and sash chains in windows, locks to doors, chimneys rebuilt, fence repaired, yards and sidewalk paved.

No. 13 Primary School.—Glass in windows.

No. 14 Primary School.—Woodwork painted outside, glass and sash chains in windows, fences repaired, locks to doors.

No. 15 Primary School.—Roof repaired and painted, woodwork outside painted, glass and sash chains in the windows, fire escapes repaired and locks to doors.

No. 16 Primary School.—Roof painted, all woodwork inside and outside painted, new water closet roof, hydrants repaired, water pipes in cellar repaired, floors repaired, glass and sash chains in windows, locks to doors and new chimney caps.

No. 17 Primary School.—Water closet seats repaired, glass in windows and locks to doors.

No. 18 Primary School.—Hydrant repaired.

No. 20 Primary School.—Woodwork inside painted, glass and sash chains in windows, new storm doors in rear, urinal trough repaired, fence repaired, hydrants repaired and locks to doors.

No. 21 Primary School.—Roof painted, glass and sash chains in windows, outside doors painted, new sash, fence repaired, two new hydrants, yards and sidewalk repaved, locks and keys to doors.

No. 22 Primary School.—Roof painted, outside woodwork painted, water closet roof repaired and painted, urinal trough repaired, new fence on east front, hydrants repaired, new fastening to shutters, locks to doors, glass and sash chains in windows.

No. 23 Primary School.—Woodwork painted, glass and sash chains in windows.

No. 25 Primary School.—Slate roof repaired, glass in window and cellar drainers repaired.

No. 26 Primary School.—Roof painted, outside woodwork painted, fences repaired, new water closet floors, glass and sash chain in windows, locks, key and hinges to doors and water closets painted on inside.

No. 27 Primary School.—Roof painted, all woodwork inside and outside painted, floors repaired, fire escapes repaired, shutters and fence repaired, metal ceilings painted, glass and sash chain in windows, locks on doors, new stairway and water closets repaired.

No. 28 Primary School.—Roof painted, glass in window.

No. 29 Primary School.—Roof painted, fence repaired, wire screens to cellar windows.

No. 30 Primary School.—New hydrant, glass in windows, joists cut away from smoke pipe in cellar.

No. 31 Primary School.—Doors and windows repaired, locks and bolts on doors, glass in windows and roof painted.

No. 32 Primary School.—Locks repaired.

No. 33 Primary School.—New water supply in cellar, glass in windows.

No. 35 Primary School.—Roof and hydrants repaired.

No. 34 Primary School.—Outside doors scraped and varnished and water closets repaired.

No. 37 Primary School.—New area ways, yards paved, hydrant repaired, new drain pipe, glass in windows, roof painted and locks to doors.

No. 38 Primary School.—Roof and outside woodwork painted, new partition, fences repaired, glass and sash cords in windows, new wire screens in windows and new hydrants.

No. 39 Primary School.—Locks to doors, fences repaired, new sash, water closet repaired, shutter fastenings and glass in windows.

No. 40 Primary School.—Glass in windows, new vent pipe to water closet and new urinal trough.

No. 2 English-German School.—Roof painted, fences, floors, doors, windows and sash repaired, glass and sash chains in windows and new closet seats.

No. 3 English-German School.—Fences, floors, pipe in cellar and hydrants repaired, glass and sash chains in windows, ceilings painted, lettering on front and yards paved.

No. 4 English-German School.—Fence and urinal waste pipe repaired, side-walk repaved, glass and sash chains in windows.

No. 5 English-German School.—Outside woodwork painted, glass in windows, hydrants repaired and locks on doors.

No. 6 English-German School.—Roof, fences and footways repaired, glass in windows,

Colored High School.—Fence and shutters repaired and glass in windows.

No. 2 Colored Grammar School.—Two new hydrants, fence repaired, yard paved, roof painted, woodwork on inside painted, new fire escape and new doorway to same.

No. 3 Colored Grammar School.—Woodwork painted on inside, glass in windows, new doorway and steps in rear and water closets repaired.

No. 2 Colored Primary School.—All outside woodwork painted, glass and sash chains in windows, hydrants repaired and new sash.

No. 3 Colored Primary School.—Glass in windows.

No. 4 Colored Primary School.—Roof and outside woodwork painted, glass and sash cord in windows, shutters and fences repaired and new seats in water closet.

No. 5 Colored Primary School.—Roof painted, hydrants and footways repaired, cellar windows boarded up, class rooms altered on second floor and floors repaired.

No. 6 Colored Primary School.—Woodwork painted on outside, fences, shutters and hydrants, sash doors and windows repaired and yards repaved.

No. 7 Colored Primary School.—New water closets, pipes, hydrants, doors and fences repaired and glass in windows.

No. 8 Colored Primary School.—Roof painted, footway and hydrant repaired and glass in windows.

No. 9 Colored Grammar School.—Roof painted, glass in windows.

No. 10 Colored Primary School.—Locks on doors repaired, yard paved new and footways repaved.

No. 1 Annex School.—Doors and fence repaired.

No. 2 Annex School.—Cesspool cleaned.

No. 3 Male Annex School.—Glass in doors and windows, new fence on front, new hydrant, yard paved, water closet downspout, urinal trough waste pipe and fences repaired.

No. 3 Female Annex School.—Glass in windows, water closet seats and pipes and hydrant pipes repaired.

No. 8 Annex School.—Glass in windows, slate roof, doors and windows repaired.

No. 9 Annex School.—Glass in windows and downspout repaired.

No. 10 Annex School.—Roof repaired, glass and sash cord in windows, old well filled up, board walk to water closet and fences repaired.

No. 11 Annex School.—Hydrants, footways and walls repaired and glass in windows.

No. 13 Annex School.—Class rooms enlarged, new gutter and spouting and water pipes repaired.

No. 16 Annex School.—All woodwork on inside varnished, glass in windows, roof repaired, cupola repaired where damaged by lightning.

No. 17 Annex School—Glass in windows.

No. 18 Annex School.—Third floor finished, yards newly paved.

No. — Colored Annex School.—Fences repaired.

ENGINE HOUSES.

No. 1 Engine House and No. 2 Hook and Ladder Company.—Roof repaired, doors, gas pipe, water closet and stall floors repaired and glass in windows.

No. 2 Engine House.—New water closet bowl, stall floors repaired and glass in windows.

No. 3 Engine House.—Glass in windows, skylight, roof and stall floors repaired.

No. 4 Engine House.—Roof, down spouts, wash stand, floor and stall floors repaired, glass in windows and new gas pipes.

No. 5 Engine House and No. 3 Hook and Ladder Company.—Floors, doors in rear and stall floors repaired and glass in windows.

No. 6 Engine House.—Roof and stall floors repaired, glass in windows and horse trough.

No. 7 Engine House.—Hot water pipe moved, floor repaired, stalls moved and repaired, one new stall and glass in windows.

No. 8 Engine House.—Roof repaired, doors and windows stripped, glass in windows, stall floors repaired and new gas light.

No. 9 Engine House.—Roof repaired, new bridge over gutter, stall floors repaired, glass in windows and one new stall.

No. 10 Engine House.—Floors, roof and stall floors repaired, glass in windows.

No. 11 Engine House.—Roof and stall floors repaired and glass in windows.

No. 12 Engine House.—Drainage pipes, cellar walls, roof and skylight, stall floors and footway repaired and new step ladder in roof.

No. 13 Engine House.—Bath tubs repaired, covers over garting, horse stall floors repaired, washstand pipes repaired and glass in windows.

No. 14 Engine House.—Sash cords in windows, roof, stall floors, wainscoating and sides of stalls repaired, glass in windows and well in rear covered.

No. 15 Engine House.—Roof and stall floors repaired and glass in windows.

No. 16 Engine House.—Washstand and tank to closet repaired.

No. 17 Engine House.—Stall floors repaired.

No. 18 Engine House.—Stall floors repaired, repairs to doors in rear and glass in windows.

No. 19 Engine House.—Roof, soil pipe to sewer and stall floors repaired.

No. 20 Engine House.—Water-closet, roof, stall floors and footway repaired and glass in windows.

No. 21 Engine House.—Roof, water-closets and stall floors repaired.

No. 1 Hook and Ladder Company.—Roof repaired, one new stall, stall floors and doors in rear repaired.

No. 4 Hook and Ladder Company.—New water-closet bowl, hot water pipes, stall floors and floors repaired, new coping over manure pit.

No. 5 Hook and Ladder Company.—Roof and down spouts repaired, floor repaired with timber supports from cellar, stall floors repaired, glass in windows and front doors repaired.

No. 6 Hook and Ladder Company.—Roof and water-closet pipes repaired, new spigots, stall floors repaired, glass in windows,

new soil pipe connection to sewer, new paving in rear alley and footway repaved.

No. 10 Hook and Ladder Company.—Footway paved on front, glass in windows, water-closet pipe and stall floors repaired.

No. 1 Chemical Engine Company.—Feed-room and stall floors repaired, roof painted and repaired and ventilation windows cut in cellar.

No. 2 Chemical Engine Company.—Front doors and stall floors repaired, and glass in windows.

No. 4 Chemical Engine Company.—Floor, stall floors and sides repaired.

No. 5 Chemical Engine Company.—Stall floors repaired.

No. 6 Chemical Engine Company.—Front doors and stall floors repaired.

MARKET HOUSES.

Lexington Market.—Second shed painted, roof and spouting repaired, plaster ceilings repaired and whitewashed, posts at stalls in first shed repaired.

Hanover Market.—Roof scraped and painted, ceilings whitewashed, pavements repaired, gutters and down spouts repaired and new stop to water supply.

Cross Street Market.—Pavements and hydrant repaired and new stop to water supply.

Hollins Market.—Roof and ventilators repaired and painted, pavements repaired, ceilings whitewashed, roof on institute repaired and glass in windows.

Lafayette Market.—Pavements repaired.

Richmond Market.—Roof repaired, new stone covering to well and pavement repaired on Howard street side.

Centre Market.—Hydrants and pavements repaired.

Broadway Market.—Repairs to doors on outside, water closet in office, roof on institute, water closets, pipes and soil pipe from closet in institute to sewer repaired.

Canton Market.—Pavement repaired and water supply pipes, from office dug up and repaired.

Northeast Market.—Pavements, roof, gutter and down spouts repaired.

Temporary City College.—Glass in windows, locks on doors and sash chains in windows.

Western Female High School.—Roof and fences repaired and glass in windows.

Eastern Female High School.—Fences, door and window repaired, glass and sash chains in windows and wash stands repaired.

Polytechnic Institute.—Pavement, down spouts, water closets and wash stand repaired, glass in windows and bolts on doors.

Colored Polytechnic Institute.—Fences repaired where damages by storm.

City Hall.—Pavements, down spouts, gratings, tile floors,water closet, gas fixtures, doors and steam pipes in cellar, wash stands and spigots repaired, locks and keys to doors, new partition on third floor, and the walls of the Mayor's Offices painted and glass in windows and doors.

City Hall Annex.—Door cut through rear wall with extensive repairs in and around this improvement; door checks, wash stands and locks on doors repaired, and new partition in Subway Engineers Department.

Temporary Court House.—New urinal in basement, water closets repaired, new closet bowls, heat pipes repaired and locks and keys to doors.

Old United States Court House.—New floor and elevator repaired, cords in windows, weather strips on windows, spring catches on doors, pipes repaired where bursted, steam pipes repaired in cellar, water closets repaired and glass in doors.

City Morgue.—Roof repaired and ventilator painted and repaired.

Respectfully submitted.

SOLOMON COBURN, *Superintendent of Repairs.*

INSPECTOR OF FURNACES.

BALTIMORE, January 3, 1899.

Everett J. Dowell, Esq., Inspector of Buildings:

SIR: I have the honor to submit herewith my annual report as Inspector of Furnaces for the year ending December 31, 1898:

The number of permits issued for furnaces from January 1, 1898, to December 31, 1898, was seventeen hundred and four (1704); the number of furnaces erected and found to conform to law, thirteen hundred and seventy-seven (1,377); furnaces condemned and defects ordered remedied, three hundred and ten (310); furnaces yet to be passed upon, seventeen (17); old furnaces and heating apparatus inspected, one hundred and twenty-six (126); furnaces and heating apparatus in the old school buildings and their branches examined from time to time and report made to School Board when requested, fifty (50).

The improvements made in heating apparatus in the last three years have so increased their heating capacity that it is necessary to have the wood-work surrounding the pipes better protected than formerly. In the year, January 1, 1898, to January 1, 1899, sixty-five (65) fires have been caused by heating apparatus and pipes being in too close proximity to wood-work. I am sure the disposition to comply with the laws, which is shown by builders and heating engineers, will in time greatly lessen the danger of fire from heating apparatus. The records of the Fire Department already show an improvement in this direction, as the decrease of 1898 over 1897 was fifty (50).

In my report of last year, I called attention to the great danger of fire from open-grate fire-places. This year's experience strengthens my opinion, that three-fourths of the fire-places made in this city are improperly constructed for open-grate fires. The fire at Mr. Joseph W. Jenkins' home, No. 1106 N. Charles street

was caused by an open-grate fire. The wood-work under the fire-place was only six inches from the hearth, and the intense heat radiating through the brick-work of the hearth set fire to the wood-work crossing the chimney jamb between the ceiling and fire-place. Too much care cannot be exercised in having fire-places carefully examined before arrangements are made for grate-fires. The circumstances so often quoted, that the fire-place has been used in this way for some time, does not assure safety, as I have known several instances where fires occured after a number of years, when the wood-work had become thoroughly dried. The fire-place at Mr. J. W. Jenkins' house had been in use for five years before its danger became known.

A careful supervision of heating apparatus in public schools has greatly lessened the danger from fires in these buildings, and the improvement in construction is very marked. The comfort of teachers and pupils has been much increased by placing new apparatus where needed, and rearrangeing old apparatus so that better results could be obtained. Great effort has been made to introduce as much fresh air as possible, and by this means ventilation in connection with heating apparatus has received the attention which was so greatly needed.

There is an impression among the majority of heating engineers, that steam-pipe resting against wood-work will not cause it to ignite. Specimens of charred wood taken by me from a prominent public building and the record of the Fire Department which shows several instances of fires from steam-pipe, proves this is a mistake. I would recommend that care be taken to keep wood-work from too close proximity to steam-pipes in confined situations, to avoid danger from superheated air.

Respectfully submitted.

N. B. Shorey, *Inspector of Furnaces.*

ANNUAL REPORT

— OF THE —

JUDGES OF THE APPEAL TAX COURT

— TO THE —

Mayor and City Council of Baltimore,

— FOR THE —

FISCAL YEAR ENDING DECEMBER 31st, 1898.

REPORT.

APPEAL TAX COURT—CITY HALL,

BALTIMORE, January 1, 1899.

To the Honorable the Mayor and City Council of Baltimore:

GENTLEMEN: We beg leave herewith to submit the result of the labor of this department for the year ending the 31st day of December, 1898:

Tabular Statement "A" shows the taxable basis charged to the City Collector for the years 1895 to 1898, both inclusive, with the assessments added to each, and the collections and abatements on each.

Table "B" exhibits by wards the number of building permits issued during the year.

Table "C," the Assessors' report, shows the number of new buildings and additional improvements assessed by the court's assessors, the ward in which they are severally located, and the detailed and aggregate valuation of the same.

For taxable basis we show for the year 1899 $368,441.133, divided as follows:

Real Estate	$238,145,973
Personal	31,754,396
Incorporated Companies	36,650,000
Securities	61,890,764

While the figures are not much changed from 1898, it is believed that the basis is a healthier one and that a considerably larger percentage of taxes, as assessed, can be collected than has been secured in 1898.

The chief feature of the year's work of the court has been the biennial assessment of personal property. It was not expected that it would be a very marked success and yet some gains were

reasonably anticipated. Several unavoidable circumstances prevented prompt commencement of the work, and it was not started until the latter part of June, nearly two months after the time when it should have been commenced. As this is about the time when the summer exodus begins it will readily be seen that the absence of hundreds of our largest taxpayers seriously interfered with the operations of the Assessors.

By persistent application to duty they completed their task in November, the results being about as anticipated, a moderate gain over the assessment of 1896. The members of this court are not favorably inclined to the biennial assessment of personal property. The gain is not sufficient to warrant such frequent visits to the homes of our citizens, and the annoyance which it gives them to recount and schedule their personal possessions. A fraction of the time and money spent in that direction, if devoted to the revision of the property already on the tax-books would secure as full results as those now accomplished by going over the ground anew every two years.

We, therefore, advise the repeal of that portion of the law which provides for biennial assessment, and the extension of the time from five to ten years. Indeed we feel that it might be wise to omit the provision for taxing furniture and substitute some better mode for the collection of a similar amount of tax.

The subject has been much discussed by students of municipal government, many people feeling that the taxing of furniture is inquisitorial and irritating, and that a more satisfactory plan for the collection of that proportion of the city's income, one that would be more equitable, and which would generally rest upon shoulders that could more easily bear the burden. But if we are to continue to tax furniture, we suggest that five or six assessors be permanently employed, under the direction of this court, whose duty it shall be to revise the personal property already recorded in the tax-books, and devote such time as may be necessary to the discovery of new property for assessable purposes. We believe that such a system would be of more service to the city, and it certainly would be much less expensive than complete biennial assessment.

The matter of plant exemptions has been made an instrument of such serious damage to the city's interest as to call loudly for modification or absolute repeal. A careful review of the returns of numerous corporations engaged in manufactures demonstrates the fact that in many cases the entire stock of these corporations is completely wiped out for taxable purposes by the plant exemptions. If the exemption is to continue, (as it most likely will,) we suggest that the manner of assessment be so far changed, by statutory provision, as to require the State Tax Commissioner to remain in Baltimore during that portion of the year when the assessment of corporations is in progress.

Supervision of the work by this court, in conjunction with the Tax Commissioner, would undoubtedly add much to the city's taxable basis.

The transition of several large firms to corporations during the past year considerably reduced the amount of property in the hands of merchants and manufacturers for taxation by this Court. Whether the results reached by the State Tax Commissioner in assessing the same property interests will be equally beneficial to the city remains to be seen. If they prove to be so, we shall be much gratified.

In the assessment of 1898 the amonnt represented by securities was extremely disappointing. When the tax was reduced to thirty cents per one hundred dollars, it was generally presumed that our citizens, who are the fortunate possessors of bonds and other evidences of indebtedness, would be only too glad to report their holdings to the assessors; but the fact remains that Baltimore is either an exceptionally impecunious city or a large percentage of the securities of her citizens escape the vigilance of the officers of the Tax Department. It is the firm conviction of this court that a full and equitable taxation, especially as applied to this class of property, would reduce the rate at least twenty-five per cent. Their covert condition is unjust to a large portion of our people, and particularly oppressive to the owners of small homes, whose possessions are usually assessed at their full value. How to reach these diffident and unwilling bonds

and certificates is a problem difficult of solution. It is impossible for the assessors to penetrate the secrets of the iron safe, or examine the locked drawers of the rich man's cabinet; therefore, the revelation of many millions of wealth, represented by paper securities, must depend entirely upon the consciences of their owners for taxable purposes.

And small as the rate now is the State receives more than one-third of it. As long as the tax on securities remains where it is (thirty cents per hundred dollars for the city) we advise a statute which shall reduce the State's share to fifteen cents, or below. We consider the present division entirely disproportionate.

In this connection we wish to call the attention of the public to a subject which is of much importance to our citizens. It is well known that large sums of money are paid by our people in the way of fines and licenses.

Under statutes now operative much of the money so collected is divided with the State treasury. We claim that this should not be, but that our citizens should have the entire disposition and benefit of the sums so collected. The State has a full treasury, and enjoys an ample income from other sources, and could well afford to dispense with any share in the funds which our officials receive from fines and licenses.

The manner in which licenses are procured might, we think, be much improved. As much of our taxation depends on the stocks of our merchants and manufacturers it is important that they should be equitably assessed. Much assistance in that direction would be afforded our department if all applications for licenses were presented to this court—the court to issue the permit or to certify the one granted by the Court of Common Pleas. In either case this department would be in a much better position to arrange the taxes for an important share of our personal property. Equitable taxation should be the desire of every one, and the best methods to reach that result should be welcomed by all. If one member of the community is undertaxed another one must be relatively overtaxed to make up the deficiency.

During 1899 it will be necessary to prepare for the new assess-

ment in the Annex. It is anticipated that this re-rating of values will materially increase our taxable basis.

We shall all be ready to welcome such an event.

A vast deal of unthinking censure has been visited upon this administration for the two-and-one-quarter dollars' tax rate. That the conditions which demanded it were an inheritance should be plain to all reasonable people.

When the first Republican Mayor was inducted to office he was confronted by a floating debt of nearly one and one-half millions of dollars; a permanent debt of more than thirty-two millions of dollars, and only the most meagre preparations existing for the liquidation of these vast sums. In addition to this floating debt—which had been created for the payment of current expenses and to quiet the anxieties of the people by keeping the tax rate at the lowest possible figure—he found that the sinking fund had been depleted to the extent of over eight millions of dollars during a period of six years, for the same purpose. We know what followed. A legitimate share of the taxes was deposited to the credit of the sinking fund, and the floating debt was funded at the lowest rate of interest. There is now no floating debt, and from that time to the present the sinking fund has received its quota of the collections.

When our present Mayor accepted the reins of office he set his face firmly against the accumulation of a debt. After giving the situation a careful scrutiny he decided that it would be necessary to increase the tax rate to $2.25 in order to be sure of accomplishing that end. There was no hesitancy, no wavering. In order that the large sum needed to liquidate the interest on the funded debt and other large sums required by the several departments should be met without calling the city's credit into requisition the unusually large rate was deemed necessary. It occasioned much grumbling and dissatisfaction, but it left the city on the 31st of December without a floating debt; on the contrary it supplied a generous balance to the city's credit.

Should the rate be lower in the coming year it will be because the situation can afford it, and not for any political effect. The party now in power means honest government, and should the

people be so fortunate as to continue it in possession for another term they will be in a position to learn that mal-administration is a thing of history.

In conclusion it is fully realized that the public has a right to expect the faithful application and vigorous execution of the revenue laws, without fear or favor, by the Appeal Tax Court, the reservoir for, and channel through which flow all municipal resources.

Respectfully submitted.

JOHN F. LANGHAMMER,
ANDREW W. BOSTWICK,
EDWARD DeLACOUR.

LOUIS CASSARD, JR., *Chief Clerk.*
CHAS. D. MATTHEWS, *Assistant Clerk.*

TABLES.

TABLE A.

STATEMENT OF PROPERTY FOR EACH YEAR CHARGED TO THE CITY COLLECTOR, DECEMBER 31, 1898.

	Dr. 1895.	*Real.*	*Personal.*
1898.			
Jan. 1.	To amount remaining uncollected.	$942,177	$112,919
Dec. 31.	" " new assessments and refunds	.. ..	1,201,546
		$942,177	$1,314,465
1898.	Cr.		
Jan. 31.	By abatements	$5,276	$1,700
Feb. 28.	" "	14,756	2,200
Mar. 31.	" "	1,705	124,485
Apr. 30.	" "	1,363	217,102
Dec. 31.	" "	8,340	626,366
Dec. 31.	" amount collected	523,858	319,274
Dec. 31.	" " uncollected	386,879	23,338
		$942,177	$1,314,465

	Dr. 1895—ANNEX.		
1898.			
Jan. 1.	To amount remaining uncollected.	$335,008	$77,856
Dec. 31.	" " new assessments	13,150	10,930
		$348,158	$88,786
1898.	Cr.		
Feb. 28.	By abatements	$5,100	$1,850
Dec. 31.	" "	1,293	73,415
Dec. 31.	" amount collected	40,360	12,171
Dec. 31.	" " uncollected	301,405	1,350
		$348,158	$88,786

TABLE A—Continued.

	Dr. 1896.	*Real.*	*Personal.*
1898.			
Jan. 1.	To amount remaining uncollected.	$14,272,229	$1,103,239
Dec. 31.	" " new assessments and refunds	.....	1,934,105
		$14,272,229	$3,037,344
1898.	Cr.		
Jan. 31.	By abatements	$9,813	$67,780
Feb. 28.	" "	14,694	14,195
Mar. 31.	" "	2,075	192,549
Apr. 30.	" "	16,317	500,227
May 31.	" "	480	45,711
June 30.	" "	825	78,649
July 31.	" "	.....	187,843
Aug. 31.	" "	750	252,385
Sept. 30.	" "	1,390	276,460
Oct. 31.	" "	1,500	109,005
Nov. 30.	" "	4,338	1,050
Dec. 31.	" "	2,275	900
Dec. 31.	" amount collected	14,074,942	1,030,746
Dec. 31.	" " uncollected	142,830	279,844
		$14,272,229	$3,037,344

	Dr. 1896—Annex.		
1898.			
Jan. 1.	To amount remaining uncollected.	$2,002,798	$109,306
Dec. 31.	" " new assessments	14,598	7,705
		$2,017,396	$117,011
1898.	Cr.		
Jan. 31.	By abatements	$5,325	.....
May 31.	" "	5,481	$22,692
Dec. 31.	" "	.....	6,421
Dec. 31.	" amount collected	1,581,094	43,119
Dec. 31.	" " uncollected	425,496	44,779
		$2,017,396	$117,011

TABLE A.—Continued.

1898.	Dr. 1897.	*Real.*	*Personal.*	*Securities.*
Jan. 1.	To amount remaining uncollected	$57.262,360	$22,177,536	$11,394,228
Mar. 31.	To new assessment....	9,989	78,978	536,591
Apr. 30.	" " "	60	21,510	.....
May. 31.	" " "	56,208	5,294	14,995
June 30.	" " "	2,858	2,272	16,641
July 31.	" " "	3,303	4,244	246,618
Aug. 31.	" " "	7,599	819	58,308
Sept. 30.	" " "	.....	6,290	2,100
Oct. 31.	" " "	21,000	32,813	126,395
Nov. 30.	" " " ...	9,181	36,328	29,525
Dec. 31.	" " "	7,390	1,160	2,428
		$57,379,948	$22,367,244	$12,427,829
1898.	Cr.			
Jan. 31.	By abatements.....	$173,223	$388,881	$2,348,429
Feb. 28.	" "	410,919	163,008	148,509
Mar. 31.	" "	83,064	297,298	169,261
Apr. 30.	" "	11,822	17,346	22,881
May 31.	" "	148,633	13,958	45,747
June 30.	" "	6,665	27,005	60,047
July 31.	" "	20,742	2,200	26,067
Aug. 31.	" "	5,283	6,410	27,500
Sept. 30.	" "	9,117	64,632	123,781
Oct .31.	" "	16,188	281,474	172,078
Nov. 30.	" "	12,369	83,140	266,630
Dec. 31.	" "	9,976	83,289	39,023
"	" Plant exemption...	.....	1,802,530	....
"	" Amount collected..	44,355,397	6,812,872	7,904,050
"	" " uncollected	12,116,550	12,323,201	1,073,826
		$57,379,948	$22,367,244	$12,427,829

TABLE A—Continued.

1898.	Dr.	1897—Annex.		
Jan. 1.	To amount remaining uncollected.....	$10,365,994	$3,523,182	$1,354,070
Mar. 31.	To new assessment....	78,035	33,786	130,367
May. 31.	" " " ...	600	4,122	63,739
Aug. 31.	" " "	18,723	2,756	18,820
Dec. 31.	" " "	7,469	2,885	11,740
		$10,470,811	$3,566,731	$1,578,736
1898.	Cr.			
Jan. 31.	By abatements.....	$21,559	$359,189	$470,117
Mar. 31.	" "	38,695	278,333	11,251
May 31.	" "	56,113	165,456	73,727
July 31.	" "	28,783	3,400	2,040
Dec. 31.	" "	2,892	360,761	7,470
"	" Plant exemption..	.....	56,500	.....
"	" Amount collected..	7,329,294	901,238	741,348
"	" " uncollected	2,993,475	1,386,354	272,793
		$10,470,811	$3,566,731	$1,578,736

TABLE A—Continued.

1898. Dr. 1898.		*Real.*	*Personal.*	*Securities.*
Mar. 31.	To amount of assessment of 1897 remaining as a portion of assessment for 1898, less incorporated companies	$204,786,270	$32,733,133	$53,256,903
Mar. 31.	To amount of judgments City Court	.....	58,967	.....
Mar. 31.	To amount of judgments Superior Court	.....	120,575	.....
Mar. 31.	To amount of judgments Court of Common Pleas	.....	28,865	.....
Mar. 31.	To amount new assessments	1,790,863	723,856	301,830
May 31.	To amount new assessments	129,164	172,724	628,356
Aug. 31.	To amount new assessments	40,859	95,235	385,630
Dec. 31.	To amount new assessments	44,509	63,523	101,303
Dec. 31.	To amount incorporated companies	.....	31,403,102	.....
		$206,791,665	$65,399,980	$54,674,022
1898.	Cr.			
May 31.	By abatements	$328,246	$338,626	$1,527,379
June 30.	" "	69,076	107,221	529,385
July 31.	" "	34,957	50,686	168,810
Aug. 31.	" "	72,962	41,862	108,169
Sept. 30.	" "	27,235	83,830	153,436
Oct. 31.	" "	25,176	324,289	214,982
Nov. 30.	" "	33,756	224,606	454,941
Nov. 30.	" "	15,890	130,266	38,885
Dec. 31.	" "	15,348	111,447	78,529
Dec. 31.	" plant exemption	.....	1,904,699	.....
Dec. 31.	" amount collected	154,242,167	40,176,955	48,308,589
Dec. 31.	" " uncollected	51,926,852	21,905,493	3,090,917
		$206,791,665	$65,399,980	$54,674,022

TABLE A—Continued.

1898.	Dr. 1898—Annex.			
Mar. 31.	To amount of assessment of 1897 remaining as a portion of assessment for 1898, less incorporated companies.....	$27,986,924	$2,913,760	$5,902,077
Mar. 31.	To amount new assessments..	1,568,860	59,465	1,500
July 31.	To amount new assessments.....	111,301	59,609	105,841
Dec. 31.	To amount new assessments.....	26,282	18,371	16,246
Dec. 31.	To amount incorporated companies	.....	4,821,085	.....
		$29,693,367	$7,872,290	$6,025,664
1898.	Cr.			
May 31.	By abatements.....	$74,395	$47,148	$291,568
June 30.	" "	48,948	27,402	89,716
July 31.	" "	2,100	1,253	4,900
Aug. 31.	" "	2,792	261,449	18,536
Sept. 31.	" "	2,650	53,068	4,554
Oct. 31.	" "	2,300	41,200	.....
Nov. 30.	" "	6,700	56,095	.....
Nov. 30.	" "	1,900	5,755	....
Dec. 31.	" "	150	3,603	5,450
Dec. 31.	" plant exemption....	.....	69,360	... .
Dec. 31.	" amount collected...	19,250,872	4,855,094	4,846,005
Dec. 31.	" " uncollected.	10,300,560	2,450,863	764,935
		$29,693,367	$7,872,290	$6,025,664

RECAPITULATION.

AMOUNT FOR DIFFERENT YEARS THAT IS CHARGDD TO THE CITY COLLECTOR, JANUARY 1, 1899.

1895—Real	$386,879	
Personal	23,338	
		$410,217
1896—Real	$142,830	
Personal	279,844	
		422,674
1897—Real	$12,116,550	
Personal	12,323,201	
Securities	1,073,826	
		25,513,577
1898—Real	$52,926,852	
Personal	21,905,493	
Securities	3,090,917	
		76,923,262
		$103,269,730
Amount of plant of incorporated companies exempt		$2,855,853

ANNEX.

1895—Real	$301,405	
Personal	1,350	
		$302,755
1896—Real	$425,496	
Personal	44,779	
		$470,275
1897—Real	$2,993,475	
Personal	1,386,354	
Securities	272,793	
		$4,652,622
1898—Real	$10,300,560	
Personal	2,450,863	
Securities	764,935	
		$13,516,358

PLANT.

The exemptions from city taxes for plant in 1898 to individuals amounted to $1,904,699, and to incorporated companies, $2,855,853; total, $4,760,552; City Annex, $69,360.

REFUNDS.

From January 1 to December 31, 1898, there were one hundred and thirty-one (131) orders issued for the refunding of taxes, representing $5,000, given generally to persons who paid in error, either by double payment or on wrong property, or to those who paid on old improvements torn down as well as on the new improvements.

TRANSFERS.

From January 1 to December 31, 1898, there were four thousand and eleven (4,011) transfers of property in the city and sixteen hundred and forty-three (1,643) in the City Annex. Total, 5,654.

TABLE B.

PERMITS ISSUED FROM JANUARY 1, TO DECEMBER 31, 1898. FIRST TWENTY WARDS.

Wards.	*New Improvements.*	*Additional Improvements.*	*Totals.*
1	38	22	60
2	4	18	22
3	5	19	24
4	26	23	49
5	7	11	18
6	645	40	685
7	49	28	77
8	61	23	84
9	16	30	46
10	4	12	16
11	8	18	26
12	16	21	37
13	4	17	21
14	5	13	18
15	4	20	24
16	3	12	15
17	277	40	317
18	98	18	116
19	164	19	183
20	32	7	39
	1,466	411	1,877

The number of permits issued for the year ending December 31, 1898, for Twenty-first and Twenty-second Wards was as follows:

Wards.	*New.*	*Additional.*
21	281	48
22	367	35
	648	83

BALTIMORE, January 1, 1899.

To the Honorable Judges of the Appeal Tax Court:

GENTLEMEN: I most respectfully submit the following as my report for the year ending December 31, 1898, of the number of new and additional improvements in the several wards in which they are located, and the assessed value of same.

TABLE C.

JANUARY 1, TO DECEMBER 1, 1898.

Wards.	*New Improvements.*	*Additional Improvements.*	*Value.*
1	26	18	$27,946
2	9	13	88,250
3	7	25	15,725
4	28	15	87,550
5	7	4	5,800
6	415	20	296,000
7	93	25	71,850
8	116	23	258,275
9	13	23	311,445
10	5	4	15,100
11	4	9	11,900
12	33	18	129,950
13	2	12	12,350
14	6	6	6,025
15	3	13	13,000
16	..	6	2,350
17	260	25	204,050
18	109	11	66,750
19	160	17	197,900
20	66	8	45,000
	1,369	295	$1,867,216

$567,266 of the above in basis of 1898.

Very respectfully,

HARRY S. RAYNER,

Assessor of New Property.

CITY HALL,

BALTIMORE, December 31, 1898.

To the Honorable the Judges of the Appeal Tax Court:

GENTLEMEN: I most respectfully submit the following as my report for the year ending with above date. Although the report only covers the number of new and additional improvements for nine months, up to October 1st, the date fixed by the New Charter for making up the basis for the following year:

TABLE C—Continued.

Wards.	*New Improvements.*	*Additional Improvements.*	*Value.*
21	669	38	$1,059,320
22	481	26	608,140
	1,150	64	$1,667,460

Included in the above amount is $498,445, which went into the basis of 1898.

Very respectfully,

WM. B. WHITESIDE,

Assessor for Twenty-first and Twenty-second Wards.

BOARD OF ASSESSORS' OFFICE—CITY HALL.

To the Honorable the Judges of the Appeal Tax Court:

GENTLEMEN: The undersigned reports the Assessors Department as having made assessments of real estate for the year ending December 31, 1898, to the amount of two-hundred and thirty-nine thousand and eighty-eight dollars ($239,088).

The following is our report on appeals filed for abatements on real estate for the year ending December 31, 1898:

Wards.	Number of Appeals.	Number Dismissed.	Number Granted.	Amount Abated.
1	62	23	39	$7,218
2	54	18	36	19,788
3	75	20	35	17,782
4	81	35	46	15,502
5	63	21	42	16,896
6	173	79	94	35,303
7	110	59	51	9,501
8	93	62	31	13,669
9	72	33	39	50,533
10	62	33	29	6,462
11	57	23	34	9,444
12	97	54	43	20,972
13	51	23	28	9,561
14	32	16	16	3,983
15	29	13	16	7,096
16	30	14	16	17,246
17	57	40	17	40,612
18	88	35	53	55,693
19	52	33	20	6,395
20	65	43	22	6,116
Totals	1,403	676	727	$369,772

Respectfully submitted.

WM. R. KING, *Chief Assessor.*

CLARENCE W. BIDDLE, *Clerk to Assessors.*

Jahres-Bericht

——der——

Richter des Steuer-Appellations-Gerichts

——an den——

Mayor und Stadtrath von Baltimore,

——für das——

Fiskal-Jahr, mit dem 31 Dezember 1898 endend.

Baltimore:
Thos. J. Sheubrooks, Stadt-Drucker,
N.-O.-Ecke Charles- und Lombard-Str.

1899.

Bericht.

Steuer-Appellations-Gericht—Rathhaus,

Baltimore, den 1. Januar 1899.

An den Achtbaren Mayor und Stadtrath Baltimore's:

Meine Herren: Wir erlauben uns hiermit, das Resultat des Wirkens dieses Departements während des mit dem 31. Dezember 1898 zu Ende gehenden Jahres zu unterbreiten:

Die tabellarische Aufstellung „A" zeigt die dem Steuereinnehmer angerechnete steuerbare Basis für die Jahre 1895 bis 1898, einschließlich der beiden Letzteren, unter Hinzufügung der Abschätzungen, nebst den erlangten Collektionen und gewährten Nachlässen.

Tabelle „B" zeigt nach Wards die Zahl der Bauerlaubnißscheine, welche während des Jahres erlassen wurden.

Tabelle „C", der Bericht des Assessors, giebt die Zahl der von den Assessoren des Gerichts abgeschätzten neuen Gebäuden und Anbauten an, sowie die Wards, in welchen sich dieselben befinden, und eine detaillirte Gesammtabschätzung derselben.

Als steuerbare Basis zeigen wir für das Jahr 1899 die Summe von $368,441,133, welche sich wie folgt vertheilt:

Grundeigenthum	$238,145,973
Personalhabe	31,754,396
Incorporirte Compagnie'n	36,650,000
Sekuritäten	61,890,764

Wenn auch die Zahlen sich nicht viel von denjenigen des Jahres 1898 unterscheiden, so glaubt man doch, daß die Basis eine gesundere ist, und daß ein beträchtlich höherer Prozentsatz Steuern collektirt werden kann, als wie es der Fall in 1898 war.

Der wichtigste Punkt der Arbeit des Gerichts während des vergangenen Jahres war die zweijährliche Abschätzung persönlichen Eigenthums. Man erwartete keinen einschneidenden Erfolg davon, jedoch sah man mit Recht einem Gewinn entgegen. Mehrere nicht zu verhütenden Umstände verzögerten den raschen Beginn der Arbeit, welche nicht eher als bis Ende Juni, nahezu zwei Monate nach der Zeit, wann sie hätte beginnen sollen,

in Angriff genommen wurde. Da dieses die Zeitperiode ist, in welcher die Sommerausflüge beginnen, wird man leicht einsehen können, daß die Abwesenheit von Hunderten unserer größten Steuerzahler die Arbeit unserer Assessoren bedeutend hinderte.

Durch unentwegte Pflichterfüllung entledigten sich die Assessoren ihrer Arbeit im November, und das Resultat war, wie man erwartet hatte, ein mäßiger Gewinn über die Abschätzung des Jahres 1896. Die Mitglieder dieses Gerichts sind von der zweijährlichen Abschätzung des persönlichen Eigenthums nicht günstig eingenommen. Der Gewinn ist nicht genügend, um solche häufige Besuche der Wohnungen unserer Bürger und die Belästigung, welche denselben durch die wiederholten Aufnahmen ihrer Personalhabe erwächst, zu rechtfertigen. Wenn ein Theil der Zeit und des Geldes für die Revision des bereits in den Steuerbüchern eingetragenen Eigenthums verwendet würde, dann könnten gerade so gute Resultate erzielt werden, als wie jetzt durch die alle zwei Jahre vorgenommene Neuabschätzung.

Wir empfehlen darum den Widerruf des Gesetzes, welches eine zweijährliche Einschätzung vorschreibt, und ersuchen um eine Verlängerung der Zeit von fünf bis zu zehn Jahren. Wir glauben in der That, es würde weise sein, die Besteuerung von Möbeln fallen zu lassen und einen besseren Plan zur Collektirung eines ähnlichen Steuerbetrages zu substituiren.

Dieser Gegenstand wurde schon häufig von solchen Personen diskutirt, die sich das Studium munizipaler Verwaltung angelegen sein ließen. Viele Leute halten die Besteuerung der Möbeln für inquisitorisch und belästigend und sind der Ansicht, es könne ein mehr zufriedenstellender Plan entworfen werden, um jenen Theil des städtischen Einkommens zu collektiren, ein Plan, welcher gerechter sein würde und die Bürde hauptsächlich auf solche Schultern wälzt, die fähiger sind, dieselbe zu tragen. Wenn aber mit der Besteuerung der Möbeln fortgefahren wird, dann schlagen wir vor, daß fünf oder sechs Assessoren permanent unter der Jurisdiktion dieses Gerichts angestellt werden, deren Pflicht es sein soll, das bereits in die Steuerbücher eingetragene persönliche Eigenthum zu revidiren und einen Theil ihrer Zeit zu verwenden, neues steuerbares Eigenthum zu entdecken. Wir glauben, daß ein solches System vortheilhafter für die Stadt ist, und es würden dadurch weniger Kosten verursacht werden, als durch eine zweijährliche Abschätzung.

Dadurch, daß Anlagen der Besteuerungen enthoben sind, ist der Stadt ein solch' ernster Schaden zugefügt worden, um eine Modifizirung oder vollständige Widerrufung dieses Gesetzes als geboten erscheinen zu lassen. Eine achtsame Durchsicht der Berichte der zahlreichen Corporationen, welche im Fabrikgeschäft thätig sind, demonstrirt die Thatsache,

daß in vielen Fällen der ganze Besitz dieser Corporationen vollständig den Zwecken der Besteuerung entzogen ist. Wenn diese Steuerbefreiung bestehen bleibt (wie es sehr wahrscheinlich der Fall sein wird), dann schlagen wir vor, daß die Art und Weise der Abschätzung soweit durch gesetzliche Vorschrift geändert wird, um den Staats-Steuercommissär anzuhalten, während desjenigen Theils des Jahres, in welchem die Einschätzung der Corporationen vorgenommen wird, in Baltimore zu verbleiben.

Die Ueberwachung der Arbeit durch dieses Gericht in Verbindung mit dem Steuercommissär würde unzweifelhaft zu der steuerbaren Basis der Stadt beitragen.

Die Formirung mehrerer großen Firmen in Corporationen während des verflossenen Jahres reduzirte das steuerbare Eigenthum in den Händen der betreffenden Kaufleute und Fabrikanten. Ob die durch die Einschätzung derselben Eigenthums-Interessen Seitens des Staats-Steuer-Commissärs erreichten Resultate in gleicher Weise sich als vortheilhaft für die Stadt erweisen werden, bleibt abzuwarten. Wenn dieses der Fall sein sollte, so soll es uns eine Genugthuung sein.

In der Steuereinschätzung des Jahres 1898 wurde man durch die durch Sekuritäten repräsentirte Summe sehr enttäuscht. Als die Steuer auf Werthpapiere auf 30 Cents pro $100 reduzirt wurde, nahm man allgemein an, daß unsere Bürger, die so glücklich waren, Obligationen und andere Schuldverschreibungen zu besitzen, nur zu froh sein würden, ihren Besitz den Assessoren mitzutheilen. Thatsache aber ist, daß entweder die Stadt außergewöhnlich geldarm ist, oder ein großer Prozentsatz der Werthpapiere ihrer Bürger entgehen der Wachsamkeit der Beamten des Steuer-Departements. Es ist die feste Ueberzeugung dieses Gerichts, daß eine volle und gerechte Besteuerung, besonders wenn sie auf diese Klasse des Besitzthums angewendet wird, die Steuerrate um wenigstens fünfundzwanzig Prozent reduziren würde. Die Verheimlichung dieser Werthpapiere ist einem großen Theile unserer Bevölkerung gegenüber ungerecht und ganz besonders für die Eigenthümer kleiner Heimstätten drückend, deren Besitzthum gewöhnlich zum vollen Werthe eingeschätzt ist. Wie diese Obligationen und Certifikate zur Steuer herangezogen werden können, ist ein noch zu lösendes Problem. Es ist für den Assessor unmöglich, die Geheimnisse des eisernen Kassenschrankes zu durchdringen, oder die verschlossenen Schubladen des reichen Mannes auf ihren Inhalt zu prüfen. Darum muß die Heranziehung zur Besteuerung der in Werthpapieren angelegten Vermögen, die viele Millionen Dollars repräsentiren, vollständig dem Gewissen der betreffenden Eigenthümer überlassen bleiben.

Und so gering die Einnahme hieraus auch ist, erhält der Staat mehr als den dritten Theil davon. So lange als die Steuer auf Werthpapiere

auf demselben Punkte (30 Cents pro $100 für die Stadt) verbleibt, rathen wir, ein Gesetz zu erlassen, durch welches der Antheil des Staates auf fünfzehn Cents oder weniger gesetzt wird. Wir betrachten die gegenwärtige Vertheilung vollständig unverhältnißmäßig.

In Verbindung hiermit wünschen wir die Aufmerksamkeit der Bürger auf einen Gegenstand zu lenken, der von großer Wichtigkeit für dieselben ist. Es ist wohl bekannt, daß große Summen Geldes von unseren Bürgern in Gestalt von Strafen und Licenzen bezahlt werden.

Unter den jetzt bestehenden Gesetzen wird ein großer Theil dieses Geldes der Staatskasse einbezahlt. Wir sind der Ansicht, daß dieses nicht geschehen sollte, sondern unsere Bürger sollten darüber zu verfügen haben und den Vortheil aus derartig collektirten Summen ziehen. Der Staat besitzt eine gefüllte Kasse und erfreut sich eines hinreichenden Einkommens aus anderen Quellen. Er könnte deshalb recht gut ohne die von unseren Beamten empfangenen Licenz-Gebühren und Strafen auskommen.

Die Art, wie die Licenz-Gebühren eingenommen werden, könnte, so glauben wir, sehr verbessert werden. Da ein großer Theil unserer Steuer von den Vorräthen unserer Kaufleute und Fabrikanten abhängt, so ist es wichtig, daß dieselben gleichmäßig und gerecht eingeschätzt werden. Große Unterstützung könnte unserem Departement geleistet werden, wenn alle Applikationen um Licenzen diesem Gericht vorgelegt würden—dasselbe könnte die Erlaubniß dazu ertheilen, oder die von dem Common Pleas-Gericht erlassene Licenz bestätigen. In irgend einem Falle wäre das Steuer-Departement besser in den Stand gesetzt, die Steuern auf einen wichtigen Theil unserer Personalhabe festzustellen. Gerechte Besteuerung sollte der Wunsch eines Jeden sein, und die besten Methoden, durch welche Solches erreicht wird, sollten von Allen willkommen geheißen werden. Wenn ein Mitglied des Gemeinwesens nicht voll besteuert ist, dann muß ein anderes verhältnißmäßig mehr bezahlen, um das Defizit gut zu machen.

Während des Jahres 1899 wird es nöthig sein, Vorbereitungen für die Besteuerung des Annex zu treffen. Man erwartet, daß diese Einschätzung bedeutend unsere steuerbare Basis erweitern wird.

Wir werden Alle ein solches Ereigniß mit Freuden willkommen heißen.

Ein guter Theil unüberlegter Kritik wurde über die jetzige Administration wegen der $2.25 betragenden Steuer ausgeübt. Daß dieselbe durch Zustände hervorgerufen wurde, welche dieser Verwaltung als Erbstück übertragen wurden, sollte allen vernünftigen Leuten klar sein.

Zur Zeit, als der erste republikanische Mayor sein Amt übernahm, sah er sich einer schwebenden Schuld von nahezu anderhalb Millionen Dollars sowie einer permanenten Schuld von mehr als $32,000,000 gegenüber, und dabei waren nur ganz schwache Vorkehrungen zur Begleichung

dieser ungeheueren Summen getroffen. Im Zusatz zu dieser schwebenden Schuld—welche zur Bezahlung laufender Ausgaben und ferner um den Unmuth des Volkes durch die Niedrighaltung der Steuerrate zu dämpfen, gemacht wurde—fand der Mayor, daß der Tilgungsfond zu dem Betrage von mehr als acht Millionen Dollars, während einer Periode von sechs Jahren, zu dem gleichen Zwecke geschmälet wurde. Wir wissen, was folgte. Ein gesetzmäßiger Theil der Steuern wurde dem Tilgungsfond überwiesen und die schwebende Schuld ist zu dem niedrigsten Zinsfuße fundirt worden. Jetzt besteht keine schwebende Schuld mehr und von jener Zeit an erhielt der Tilgungsfond seinen rechtmäßigen Antheil der Steuern.

Zur Zeit als unser jetziger Mayor die Zügel der Regierung ergriff, stemmte er sich fest gegen die Ansammlung einer Schuld. Nachdem er die Situation einer genauen Prüfung unterzogen hatte, kam er zu dem Schlusse, daß eine Vermehrung der Steuerrate auf $2.25 nöthig war, um jenes angestrebte Ziel zu erreichen. Da gab es kein Zögern und Wanken. Damit die große Summe, welche zur Begleichung der Zinsen auf die fundirte Schuld und anderer großen Summen, die für die verschiedenen Departements nothwendig waren, erlangt würde, ohne den Credit der Stadt in Anspruch zu nehmen, wurde die ungewöhnlich hohe Steuerrate unbedingt nöthig erachtet. Das verursachte viel Murren und Unzufriedenheit, aber die Stadt war am 31. Dezember ohne eine schwebende Schuld und hatte im Gegentheil einen hübschen Ueberschuß zu ihrem Credit.

Wenn die Steuerrate im kommenden Jahre niedriger sein wird, dann ist es aus dem Grunde, weil die jetzigen Verhältnisse solches erlauben und nicht eines politischen Effektes wegen.

Die Partei, welche jetzt am Ruder ist, will eine ehrliche Regierung haben und sollte das Volk so glücklich sein, diese Partei einen anderen Termin im Amte zu haben, dann wird es die Erfahrung machen, daß Mißverwaltung ein Ding der Vergangenheit ist.

Zum Schlusse wird es voll anerkannt und verstanden, daß die Bürger ein Recht besitzen, die getreue Anwendung und strenge Durchführung der Revenue-Gesetze ohne Furcht und Begünstigung durch das Steuer-Appellationsgericht, dem Reservoir aller municipalen Mitteln und dem Canal, durch welchen dieselben fließen, zu erwarten.

Achtungsvoll unterbreitet,

John F. Langhammer,
Andrew W. Bostwick,
Edward DeLacour.

Louis Cassard, jun., Chef-Clerk.
Chas. D. Matthews, Hülfs-Clerk.

Tabellen.

Tabelle A.

Aufstellung des dem Stadt-Steuereinnehmer in Anrechnung gebrachten Eigenthums für jedes Jahr, 31. Dezember 1898.

		Grundeigenthum.	Personal.
	Debit. 1895.		
1898.			
1. Jan.	Nicht collektirter Betrag	$942,177	$112,919
31. Dez.	Neue Einschätzung und Zurückzahlung	.....	1,201,546
		$942,177	$1,314,465
1898.	Credit.		
31. Jan.	Durch Steuernachlaß..... ...	$5,276	$1,700
28. Feb.	„ „	14,756	2,200
31. März	„ „	1,705	124,485
30. Apr.	„ „	1,363	217,102
31. Dez.	„ „	8,340	626,366
31. Dez.	„ Collektirter Betrag.....	523,858	319,274
31. Dez.	„ Nicht collektirter Betrag	386,879	23,338
		$942,177	$1,314,465
	Debit. 1895—Anner.		
1898.			
1. Jan.	Nicht collektirter Betrag.....	$335,008	$77,856
31. Dez.	Neue Einschätzung.....	13,150	10,930
		$348,158	$88,786
1898.	Credit.		
28. Feb.	Steuernachlaß.....	$5,100	$1,850
31. Dez.	„ „	1,293	73,415
31. Dez.	Collektirter Betrag	40,360	12,171
31. Dez.	Nicht Collektirter Betrag	301,405	1,350
		$348,158	$88,786

Tabelle A—fortgesetzt.

Debit. 1896.

1898.		Grundeigenthum.	Personal.
1. Jan.	Nicht collektirter Betrag	$14,272,229	$1,103,239
31. Dez.	Neue Einschätzung und Zurückzahlung	.....	1,934,105
		$14,272,229	$3,037,344

1898.	Credit.		
31. Jan.	Durch Steuernachlaß	$9,813	$67,780
28. Feb.	" "	14,694	14,195
31. März	" "	2,075	192,549
30. April	" "	16,317	500,227
31. Mai	" "	480	45,711
30. Juni	" "	825	78,649
31. Juli	" "	.....	187,843
31. Aug.	" "	750	252,385
30. Sept.	" "	1,390	276,460
31. Okt.	" "	1,500	109,005
30. Nov.	" "	4,338	1,050
31. Dez.	" "	2,275	900
31. Dez.	Collektirter Betrag	14,074,942	1,030,746
31. Dez.	Nicht Collektirter Betrag	142,830	279,844
		$14,272,229	$3,037,344

Debit. 1896—Anner.

1898.			
1. Jan.	Nicht collektirter Betrag	$2,002,798	$109,306
31. Dez.	Neueinschätzung	14,598	7,705
		$2,017,396	$117,011

1898.	Credit.		
31. Jan.	Durch Steuernachlaß	$5,325	.....
31. Mai	" "	5,481	$22,692
31. Dez.	" "	.....	6,421
31. Dez.	Collektirter Betrag	1,581,094	43,119
31. Dez.	Nicht collektirter Betrag	425,496	44,779
		$2,017,396	$117,011

Tabelle A.—fortgesetzt.

	Debit.	1897.		
1898.		Grundeigenthum	Personal	Sekuritäten.
1. Jan.	Nicht collectirter Betrag.....	$57,262,360	$22,177,536	$11,394,228
31. März	Neueinschätzung.	9,989	78,978	536,591
30. April	„ „	60	21,510	....
31. Mai	„ „	56,208	5,294	14,995
30. Juni	„ „	2,858	2,272	16,641
31. Juli	„ „	3,303	4,244	246,618
31. Aug.	„ „	7,599	819	58,308
30. Sept.	„ „	.....	6,290	2,100
31. Okt.	„ „	21,000	32,813	126,395
30. Nov.	„ „	9,181	36,328	29,525
31. Dez.	„ „	7,390	1,160	2,428
		$57,379,948	$22,367,244	$12,427,829
1898.	Credit.			
31. Jan.	Steuernachlaß	$173,223	$388,881	$2 348,429
28. Feb.	„	410,919	163,008	148,509
31. März	„	83,064	297,298	169,261
30. April	„	11,822	17,346	22,881
31. Mai	„	148,633	13,958	45,747
30. Juni	„	6,665	27,005	60,047
31. Juli	„	20,742	2,200	26,067
31. Aug.	„	5,283	6,410	27,500
30. Sep.	„	9,117	64,632	123,781
31. Okt.	„	16,188	281,474	172,078
30. Nov.	„	12,369	83,140	266,630
31. Dez.	„	9,976	83,289	39,023
„	Anlagen-Steuer-Befreiung.....	....	1,802,530	.....
„	CollektirterBetrag	44,355,397	6,812,872	7,904,050
„	Nicht collektirter Betrag.....	12 116,550	12,323,201	1,073,826
		$57,379,948	$22,367,244	$12,427,829

Tabelle A—fortgesetzt.

	Debit.	1897—Annex.		
1898.				
1. Jan.	Nicht collektirter Betrag	$10,365,994	$3,523,182	$1,354,070
31. März	Neueinschätzung.	78,035	33,786	130,367
31. Mai	"	600	4,122	63,739
31. Aug.	"	18,723	2,756	18,820
31. Dez.	"	7,469	2,885	11,740
		$10,470,811	$3,566,731	$1,578,736
1898.	Credit.			
31. Jan.	Steuernachlaß	$21,559	$359,189	$470,117
31. März	"	38,695	278,333	11,251
31. Mai	"	56,113	165,456	73,727
31. Juli	"	28,783	3,400	2,040
31. Dez.	"	2,892	360,761	7,470
"	Steuerfreiheit für Fabriken.....	.....	56,500	.....
"	Collektirter Betrag	7,329,294	901,238	741,348
"	Nicht collektirter Betrag.....	2,993,475	1,386,354	272,793
		$10,470,811	$3,566,731	$1,578,736

Tabelle A — fortgesetzt.

	Debit. 1898.	Grundeigenthum.	Personalhabe.	Sekuritäten.
1898.				
31. März.	An Betrag der Einschätzung von 1897, welcher als ein Theil der Einschätzung des Jahres 1898, abzüglich der incorporirten Compagnie'n übrig blieb	$204,786,270	$32,733,133	$53,256,903
31. März.	An Zahlungsbefehle durch das Stadtgericht		28,967	
31. März.	An Zahlungsbefehle durch das Superiorgericht		120,575	
31. März.	An Zahlungsbefehle durch das Common-Pleas-Gericht		28 865	
31. März.	An Betrag für neue Einschätzung	1,790,863	723 856	301,830
31. Mai	An Betrag für neue Einschätzung	129,164	172,724	628,356
31. August.	An Betrag für neue Einschätzung	40,859	95,235	385,630
31. Dezbr.	An Betrag für neue Einschätzung	44,509	63,523	101,303
31 Dezbr.	An Betrag für incorporirte Compagnie'n		31,403,102	
		$206,791,665	$65,399,980	$54,674,022
1898.	Credit.			
31. Mai.	Durch Steuernachlaß	$328,246	$338,626	$1,527,379
30. Juni.	„ „	69,076	107,221	529,385
31. Juli.	„ „	34,957	50,686	168,810
31. Aug	„ „	72,962	41,862	108,169
30. Sep.	„ „	27,235	83,830	153,436
31. Okt.	„ „	25,176	324,289	214,982
30. Nov.	„ „	33,756	224,606	454,941
30. Nov.	„ „	15,890	130,266	38,885
31. Dez.	„ „	15,348	111,447	78,529
31. Dez.	„ Steuerfreiheit für Fabrik-Anlagen		1,904,699	
31. Dez.	„ collektirten Betrag	154,242,167	40,176,955	48,308,589
31. Dez.	„ nicht collekttirten Betrag	51,926,852	21,905,493	3,090,917
		$206,791,665	$65,399,980	$54,674,022

Tabelle A—fortgesetzt.

1898—Anner.

1898.	Debit.			
März 31.	An Betrag der Einschätzung von 1897, welcher als ein Theil der Einschätzung des Jahres 1898, abzüglich der incorporirten Compagnien übrig bleiben	$27,986,924	$2,913,760	$5,902,077
März 31.	An Betrag für neue Einschätzung	1,568,860	59,465	1,500
31. Juli	An Betrag für neue Einschätzung	111,301	59,609	105,841
31. Dez.	An Betrag für neue Einschätzung	26,282	18,371	16,246
31. Dez.	An Betrag für incorporirte Compagnien	.....	4,821,085	.....
		$29,693,367	$7,872,290	$6,025,664
1898.	Credit.			
31. Mai	Durch Steuernachlaß	$74,395	$47,148	$291,568
30. Juni	Durch Steuernachlaß	48,948	27,402	89,716
31. Juli	Durch Steuernachlaß	2,100	1,253	4,900
31. Aug.	„ „	2,792	261,449	18,536
31. Sept.	„ „	2,650	53,068	4,554
31. Oct.	„ „	2,300	41,200	.....
30. Nov.	„ „	6,700	56,095	.....
30. Nov.	„ „	1,900	5,755	.....
31. Dez.	„ „	150	3,603	5,450
31. Dez.	„ Steuerfreiheit für Fabrikanlagen	.....	69,360	.....
31. Dez.	„ collikttirten Betrag	19,250,872	4,855,094	4,846,005
31. Dez.	„ nicht collektirter Betrag	$10,300,560	2,450,863	764,935
		$29,693,367	$7,872,290	$6,025,664

Wiederholung

der Beträge verschiedenener Jahre; berechnet vom Stadt-Collektor bis 1. Januar 1899.

1895.—Grundeigenthum	$386,879	
Persönal	23,338	
		$410,217
1896—Grundeigenthum	$142,830	
Persönal	279,844	
		422,674
1897—Grundeigenthum	$12,116,550	
Persönal	12,323,201	
Sekuritäten	1,073,826	
		25,513,577
1898—Grundeigenthum	$52,926,852	
Persönal	21,905,493	
Sekuritäten	3,090,917	
		76,923,262
		$103,269,730
Betrag der Fabriken von incorporirten Compagnien exempt		$2,855,853

Anner.

1895—Grundeigenthum	$301,405	
Persönal	1,350	
		$302,755
1896—Grundeigenthum	$425,496	
Persönal	44,779	
		$470,275
1897—Grundeigenthum	$2,993,475	
Persönal	1,386,354	
Sekuritäten	272,793	
		$4,652,622
1898—Grundeigenthum	$10,300,560	
Persönal	2,450,863	
Sekuritäten	764,935	
		$13,516,358

Fabrikanlagen.

Personen, welche Fabrikanlagen besitzen, wurden von der städtischen Steuer im Betrage von $1,904,699 befreit, während incorporirte Compagnie'n $2,855,853 weniger bezahlten. Im Ganzen $4,760,552; Annex $69,360.

Wiedererstattung von Steuern.

Von dem 1. Januar an bis zum 31. Dezember 1898 wurden einhundertundeinunddreißig (131) Anweisungen auf Zurückbezahlung von Steuern erlassen, welche einen Betrag von $5000 repräsentiren. Diese Steuern sind in den meisten Fällen von Personen irrthümlich bezahlt worden, entweder durch eine doppelte Entrichtung ihrer Abgaben, oder auf das falsche Eigenthum. Ebenso erhielten solche Personen, die für alte niedergerissene Gebäude, gerade wie für Neubauten, Steuer bezahlten, ihr Geld zurück.

Uebertragungen.

Von dem 1. Januar an bis zum 31. Dezember 1898 wurden in der Stadt viertausend und elf (4011) Eigenthums-Uebertragungen und in dem Annex sechszehnhundert und dreiundvierzig (1643), im Ganzen 5654, vorgenommen.

Tabelle B.

Erlaubnißscheine verausgabt vom 1. Januar bis zum 31. Dezember 1898.
Für die ersten 20 Wards.

Wards.	Neubauten.	Anbauten.	Total.
1	38	22	60
2	4	18	22
3	5	19	24
4	26	23	49
5	7	11	18
6	645	40	685
7	49	28	77
8	61	23	84
9	16	30	46
10	4	12	16
11	8	18	26
12	16	21	37
13	4	17	21
14	5	13	18
15	4	20	24
16	3	12	15
17	277	40	317
18	98	18	116
19	164	19	183
20	32	7	39
	1466	411	1877

Die Zahl der Erlaubnißscheine, verausgabt für das am 31. Dezember 1898 endende Jahr für die einundzwanzigste und zweiundzwanzigste Wards, war wie folgt:

Wards.	Neubauten.	Anbauten.
21	281	48
22	367	35
	648	83

Baltimore, den 1. Januar 1899.

An die achtbaren Richter des Steuer-Appellationsgerichts:

Meine Herren: Ich unterbreite hiermit achtungsvollst meinen Bericht für das mit dem 31. Dezember 1898 endende Jahr, bezüglich der Zahl der Neubauten und Anbauten in den verschiedenen Wards, wo sich dieselben befinden, nebst der Angabe ihres abgeschätzten Werthes.

Tabelle C.

1. Januar bis zum 1. Dezember 1898.

Wards.	Neubauten.	Anbauten.	Werth.
1	26	18	$27,946
2	9	13	88,250
3	7	25	15,725
4	28	15	87,550
5	7	4	5,800
6	415	20	296,000
7	93	25	71,850
8	116	23	258,275
9	13	23	311,445
10	5	4	15,100
11	4	9	11,900
12	33	18	129,950
13	2	12	12,350
14	6	6	6,025
15	3	13	13,000
16	...	6	2,350
17	260	25	204,050
18	109	11	66,750
19	160	17	197,900
20	66	8	45,000
	1369	295	$1,867,216

$567,266 an der obengenannten Summe sind in der steuerbaren Basis für 1898 einbegriffen.

Achtungsvollst,
Harry S. Rayner,
Assessor neuen Eigenthums.

Rathhaus.

Baltimore, den 31. Dezember 1898.

An die achtbaren Richter des Steuer-Appellationsgerichts:

Meine Herren: Ich unterbreite hiermit achtungsvollst meinen Bericht für das mit dem obengenannten Datum zu Ende gegangenen Jahr. Der Bericht umfaßt jedoch nur solche Neubauten und Anbauten, welche während der am ersten Oktober 1898 verflossenen Periode von neun Monaten errichtet wurden. Durch den neuen Freibrief wird der erste Oktober zur Basis für das nächste Jahr bestimmt.

Tabelle C—Fortgesetzt.

Wards.	Neubauten.	Anbauten.	Werth.
21	669	38	$1,059,320
22	481	26	608,140
	1150	64	$1,667,460

In dem obengenannten Betrag sind $498,445 eingeschlossen, welche zu der steuerbaren Basis für 1898 gerechnet wurden.

Achtungsvollst,

Wm. B. Whiteside,

Assessor der einundzwanzigsten und zweiundzwanzigsten Ward.

Behörde der Assessors-Office—Rathhaus.

An die Achtbaren Richter des Steuer-Appellations-Gerichts:

Meine Herren: Der Unterzeichnete berichtet für das Assessoren-Departement, welches für das mit dem 31. Dezember 1898 endende Jahr Assessments auf Grundeigenthum zum Betrag von zwei Hundert und neun und dreißig Tausend und achtundachtzig Dollars ($239,088) gemacht hat.

Das Folgende ist unser Bericht über Appellationen, welche für gerichtliche Umstoßung (abatements) auf Grundeigenthum für das Jahr mit dem 31. Dezember 1898 endend, hinterlegt wurden:

Wards.	Anzahl der Appellationen.	Anzahl abgewiesen.	Anzahl gewährt.	Betrag Steuer-Nachlässe.
1	62	23	39	$7,218
2	54	18	36	19,788
3	75	20	35	17,782
4	81	35	46	15,502
5	63	21	42	16,896
6	173	79	94	35,303
7	110	59	51	9,501
8	93	62	31	13,669
9	72	33	39	50,533
10	62	33	29	6,462
11	57	23	34	9,444
12	97	54	43	20,972
13	51	23	28	9,561
14	32	16	16	3,983
15	29	13	16	7,096
16	30	14	16	17,246
17	57	40	17	40,612
18	88	35	53	55,693
19	52	33	20	6,395
20	65	43	22	6,116
Total	1403	676	727	$369,772

Achtungsvoll unterbreitet,

Wm. R. King, Haupt-Abschätzer.

Clarence W. Biddle, Clerk für Abschätzer.

ANNUAL REPORT

— OF THE —

TOPOGRAPHICAL SURVEY

— TO THE —

Mayor and City Council of Baltimore,

— FOR THE —

FISCAL YEAR ENDING DECEMBER 31st, 1898.

REPORT.

BALTIMORE, December 31, 1898.

To the Hon. Wm. T. Malster, Mayor,
Hon. J. F. Supplee, Register,
Hon. C. D. Fenhagen, Comptroller,
} *Commission.*

GENTLEMEN: I beg to submit to you a report of the work, as well as a statement of the expenditures and receipts for a period of three years from Dec. 31, 1895, to Dec. 31, 1898; although it has been found to be a work of some difficulty to make a report covering so long a period, as the officials in charge not only failed to make reports (except a short one by Thomas M. Ward, Dec. 28, 1897), but the officials themselves are not accessible.

So far as can be ascertained, during 1896, the General Map of the City, on a scale of 500 ft. to the inch, was completed. This has been copied by several of the departments, and has proved of a very great value.

The work on the square mile sheets was finished and the photo-lithographing started. Work on the Property Survey and Maps, as well as the location of Annex Streets, progressed very well during this time. On April 11, 1897, Mr. Thomas M. Ward was placed in charge of the Survey, and in June, Mr. Jos. W. Shirley was appointed Assistant Engineer.

During 1897, the work of the Property Survey was kept up both in the field and in the office. Complete sets (5,000 of each square mile) of the square mile sheets were photo-lithographed, and 200 sets bound in atlas form.

Several of these atlases have been furnished to different city departments, and many sold. The remainder of the sheets were deposited in the Mayor's Office.

The Topographical Commission had requested this office to pre-

pare a plan for street extension in the Annex. Parts of this had been made in 1894–'95–'96 by Colonel H. T. Douglas, the head of the Survey, and a complete plan by Messrs. Rice & Wood, Assistant Engineers. In addition, plans were asked for and received from Augustus Boulden, T. P. Kinsley, Thomas H. Disney, and R. W. Mavin. None of these plans suited the Commission, and William P. Twamley was asked to go over all the plans and make a new one. This was done, and the report of the Commission thereon submitted to the Council. It appears that this communication was filed with the clerk and no notice taken until the last of March, 1898.

In April, 1898, Mr.Ward and Mr. Shirley (the entire force) were ordered to Camp Wilmer.

On April 23, I was appointed to take charge of the office.

On July 1, Mr. Shirley returned to duty, and on July 17, Mr. R. N. Hanna, formerly connected with the Survey and the Water Department, was appointed draughtsman.

Soon after taking charge, it was found that the plan for Annex streets, the speedy adoption of which under the New Charter (Sections 841, 842,) is particularly desirable, if not imperative, and to which His Honor Mayor Malster had especially referred in his message, had not been seen by the Highways Committee to whom it had been referred by the Council. After seeing each member of this committee in person, we at last succeeded in holding a meeting in this office.

The plan was placed upon the walls, and its merits and demerits discussed at length. The committee finally concluded that the plan was not clear.

It was suggested to them that the sheets of the Topographical Survey, covering the Annex, be taken, and on them be laid out in color all streets, etc., now open and public, while the projected streets be shown in another color, making the whole plan easily understood.

Notices stating what was being done, and requesting persons to call with plats, etc., were sent out to over one hundred property holders in the Annex.

A number called, expressed their approval and satisfaction, and made some excellent suggestions.

Among these were the representatives of the Garrett, Abel, Gelston, Patterson, Wyman and Poole estates; W. E. Hooper & Co., H. W. Rogers, Mt. Vernon Co., Slingluff, Francis White, Ortwine, Ulman, Carroll, J. S. Gittings, Alexander Brown, Wm. Wilkens' estate.

In addition to these the West Arlington Improvement Association, and the Northwest Baltimore Improvement Association sent large delegations, who came to this office, made a careful inspection of the plan, and then proceeded to the Mayor's Office and urged the signing of the ordinance.

The Walbrook Improvement Association, in the person of its president, Dr. Horn, called and expressed his approval.

So far as can be ascertained, but one property holder in the Annex has made any decided objections, and but one body, (the Northeast Baltimore Improvement Association), who have but little connection with the Annex, and who are chiefly interested in the extension of Broadway and the approach to Clifton Park. On this point, Mr. Chas. H. Latrobe, the Park Engineer, was consulted, and stated that the ideas of the Survey in this particular matter were correct.

While all these matters were progressing the various members of the Highways Committee called, and at the completion held a formal meeting and approved the plan.

The City Solicitor and Examiner of Titles were consulted frequently as to the legal status of the work.

The utmost publicity was given to the plan. The ordinance adopting the plan and providing for a map showing all distances (width of streets, length and width of blocks, etc.,) was passed by the Council without a dissenting vote.

The amount of work done by this office in the short time indicated will be better appreciated when it is remembered that the Annex contains nearly 20 per cent. greater area than the "Old City."

After consulting the Inspector of Buildings and City Attorney,

an ordinance extending the decimal system into the Annex has been sent to the Council.

The question of "names" of streets in the Annex, has also been considered, some of these duplicating and triplicating the names of streets in the 'Old City," a condition which in the future is liable to lead to much confusion, but if corrected now may be remedied. In addition, work has been continued on the Property Maps.

In their reports for 1893, and again in 1895, the Commissioners for Opening Streets, call attention to the great need of a "Property Book," giving a history of each street, its opening, closing, change of name, plats, deeds, etc., and in his report for 1896 the City Examiner of Titles urges that something of this sort be done.

Such a work has been started by this office, and will be carried forward as rapidly as its time will permit.

From time to time, some complaints have been made by persons (failing to look into the matter) concerning the expense attached to the Survey. A glance at the statement of expenditures for 1897 and 1898 will show that the working expenses have been very small. As to the scope of the work of the Survey, letters of inquiry have been sent to various city departments requesting them to give an idea as to how far the material of the Survey had been of use to them.

The Sewerage Commission has made very great use of the maps and has found them accurate and reliable.

The Harbor Board has used them for the streets abutting on the Harbor.

The Engineer of the Water Department states "the topographical maps are in daily use in our drawing-room and have been found most valuable for determining elevations of different points in the city, for making plans for extension of mains and for general reference.

"It is difficult for me to express the high appreciation I have for the work done by the Topographical Survey, but probably that can be best explained by stating that the drawing-room force is now engaged in preparing a series of one-half mile square sheets, the data for which is being taken from the Topographical Sheets."

The Acting City Commissioner writes: 'The maps are in constant use for estimates, street paving, study of sewer plans, for profiles, study of grades and in a great many other ways."

The Chief Engineer of the Electrical Commission under date of December 31, 1898, says:

"I cannot too highly commend the work done by the Topographical Survey, the maps prepared under the Survey being the most accurate we could have secured, obviating the necessity of our making extensive surveys of the districts proposed to be covered.

"They are in constant use in our drafting-room, being most valuable in assisting us in mapping out plans for the proposed subway."

As to work in the future, I need only to refer to the map provided for by ordinance, to the regular work on the property maps, and to such matters as arise from time to time in the routine of office.

RECEIPTS AND EXPENDITURES FROM DECEMBER 31, 1895, TO DECEMBER 31, 1898.

Total Expenditures to December 31, 1895, as per report dated December 31, 1895..		$148,249 72
Expenditures in 1896:		
Instruments	$50 92	
Pay rolls	10,296 44	
Stationery	177 41	
Rent	1,078 62	
Office expenses	85 04	
Photo-lithograping square mile sheets..	3,800 36	
		15,488 79
Expenses of Investigating Committee..	844 85	
Printing report	12 20	
		857 05
Expenditures in 1897:		
W. P. Twamley, examination of plans..	$150 00	
W. P. Twamley, plan Annex streets....	500 00	
August Bouldin, " " "	350 00	
T. P. Kinsley, " " "	500 00	
Thos. H. Disney, " " "	300 00	
Pay rolls	3,482 99	
Office expenses	16 40	
Stationery	12 80	
Photo-lithographing square mile sheets.	1,298 30	
		$6,610 39
Expenditures in 1898:		
Stationery	$18 95	
Pay rolls	2,786 75	
Photo-lithographing square mile sheets.	352 15	
Blue prints	73 50	
R. W. Mavin, plan Annex streets	350 00	
Office expenses	27 62	
Instruments	23 75	
		$3,632 72
Total cost of survey to date		$174,838 67
Receipts (Maps, etc.) to date		$1,514 85

In conclusion permit me to state, that I cannot too strongly commend the services of Messrs. Jos. W. Shirley and Robert N. Hanna, my associates in the office, in their attention to details and accuracy of results.

Very respectfully submitted.

GEORGE W. McCREARY, *In Charge of Survey.*

ANNUAL REPORT

—OF THE—

DEPARTMENT OF STREET CLEANING

—TO THE—

Mayor and City Council of Baltimore,

—FOR THE—

FISCAL YEAR ENDING DECEMBER 31st, 1898.

OFFICERS AND EMPLOYES

— OF THE —

DEPARTMENT OF STREET CLEANING

FOR THE YEAR 1898.

FREDERICK R. BYE,

Commissioner of Street Cleaning.

CHARLES F. MARKELL,

Secretary to the Commissioner.

HARRY J. HAWKINS,

Messenger.

SUPERINTENDENTS OF STREETS:

CHAS. L. STREBECK, *First District.*
JOSEPH H. COOPER, *Second District.*
R. LEWIS MORTON, *Third District.*
JOHN C. WEAVER, *Fourth District.*
JOHN T. CARTER, *Fifth District.*
WILLIAM A. POIST, *Sixth District.*
OCTAVIUS DIX, *Seventh District.*
THOS. B. SWEETING, *Eighth District.*

SUPERINTENDENTS OF DUMPS:

GEO. F. ALLEN, *Dump No.* 1.
ROBERT P. HARRISON, *Dump No.* 3.
WM. G. HOFFMAN, *Dump No.* 2.
JOHN HIPPLER, *Ass't Dump No.* 3.

JOHN BERNEBERG,

Superintendent of Warehouse and Repairs.

CLARENCE G. HANDY,

Assistant Superintendent of Warehouse and Repairs.

CHARLES H. RICHARDS,

Superintendent of Sweeping Machines.

REPORT.

OFFICE OF COMMISSIONER OF STREET CLEANING—
CITY HALL,

BALTIMORE, January 2, 1899.

To the Honorable the Mayor and City Council of Baltimore:

GENTLEMEN: In obedience to the law and in pursuance of custom I have the honor to present my report for the year 1898, with appended tables, showing the number of men employed in the different services of my department, the expenditures of same, and the various channels through which the respective appropriations were disbursed.

It is most pertinent to preface the report with the statement that the total appropriation for the year was $384,646.00, and the total expenditures $380,928.40, leaving a balance in the treasury of $3,717.60. The money turned over into the hands of the comptroller from the sale of street dirt aggregated $1,313.65, an amount, I am advised, exceeding that of any of my predecessors for a considerable period back.

I think that I may be pardoned in stating that during the nine months of my incumbency my time and attention have been assiduously and exclusively employed in rendering the workings of the department as efficient as was feasible under the environments and according the citizens of Baltimore a prompt, expeditious and satisfactory service. This, with the phenomenal growth of the annex portion of the city, has taxed to the utmost my ingenuity and ability, and in the garbage service has resulted in the collecion of twenty scow loads, or 6,320 tons more of refuse than ever in the history of the department.

Particular attention has been given during my incumbency to the separation of ashes from garbage and the total exclusion of the

latter from the ash dumps in the city and suburbs. This I deem a matter of no small moment, as hitherto it had been the almost universal practice to deposit a large quota of kitchen and household refuse upon the ash and dirt dumps of the vacant lots in the city for the filling up of low grounds, formations of foundations for for dwellings, etc. These deposits were allowed to accumulate for years, constituting veritable compost heaps, and when excavations were made therein for the subsequent erection of residences, germs of disease were thereby liberated, rendering them a menace to the health of the city and subjecting the citizens to the risk and perils of epidemics.

In my endeavors to increase the efficiency of the sweeping machine and cylinder-broom service I disposed of a " pick up" machine, which I found on hand and in a condition of utter uselessness upon the assumption my office duties, for two side-sweepers worth seven hundred dollars.

Thus, an unnecessary apparatus was disposed of, and the number of sweeping machines increased free from any cost to the city.

Several important changes have occurred in the personnel of my department since I became its head. On the 12th of March, Mr. R. Lewis Morton succeeded Mr. William P. Lansey as Superintendent of the Third District, and Mr. John C. Weaver succeeded Mr. George F. Cooper in the Fourth, while Mr. Octavius Dix and Mr. Thomas B. Sweeting became the successors of Mr. Alexander Harrison and Mr. William G. Harryman (acting) in the Seventh and Eighth Districts, respectively. Mr. John T. Carter took charge of the Fifth District March 19th, displacing Mr. Henry Lancaster, and on the 26th of the same month Mr. William A Poist assumed a similar position in the Sixth District vice Mr. George W. Hill, who had temporarily succeeded Mr. Charles F. Marsh.

On the first of July Mr. Charles F. Markell became Secretary to the commissioner, the position having become vacant by the enlistment of Mr. Samuel J. Bright as an officer in the First Maryland Regiment of the United States Volunteers.

Notwithstanding the efficiency and high grade of the street-

cleaning service, numerous advances and reforms therein might be suggested, facilitating its operations and curtailing its expenses.

I would especially urge the owning by the city of the horses for the sweeping-machines and sprinklers. This is relatively the most expensive branch of the street-cleaning department. Service by competitive contract has proved futile in securing this desideratum, and with the city's ownership of the horses in question I will venture the assertion that one-third of the expenses incurred under the present system would be obviated.

The abnormal growth of Baltimore has placed her in the first class of the country's principal cities, and it is meet that in her methods and economics, she should preserve pace with her sister municipalities. It is upon this line that I would suggest the abrogation of the gang service among the hand-broom sweepers and the substitution of the blocking system. This latter system is in vogue in New York, Washington and other metropolitan cities, where it has given plenary and universal satisfaction. The method has been in a measure introduced upon the smooth asphalt streets of Baltimore, where patrol carts have been used with most satisfactory results. It should be extended so as to include all of our thoroughfares.

And here I would state that the work of the department could be rendered doubly efficient if the miserable cobble-stones of our city were discarded and replaced by asphalt, not only throughout the streets, but in every alley within the corporate limits. Most of these alleys are at present in such a deplorable condition that cartmen incur the risk of injury to horse and vehicle in traversing them, and if they are not frequented for the collection of garbage, nothing would remain save the placing of the culinary refuse upon the curbs of the front sidewalks—an unsightly spectacle and undesirable predicament.

An ordinance providing for the purchase of one hundred metal boxes to be used as receptacles for waste paper and other rubbish was passed by the Council and approved by the Mayor on the 9th of December, 1897, but as no money has been appropriated for the purchase thereof, the ordinance remains inoperative.

Lastly, I would recommend an appropriation for the constitution of a gang of laborers for the cleansing of the city sewers and markets. When not engaged in clearing the public sluice-ways these men could give their attention to the markets, which duty is now performed to the detriment of the street-cleaning service, for every market day a certain number of sweepers and street cartmen are withdrawn from their proper duties upon the city thoroughfares to brush up the public marts.

Work upon the streets is also necessarily neglected when the sweepers and cartmen are engaged in cleaning the sewers. Formerly this service was under the supervision of the Health Department, which received an annual appropriation of fifteen thousand dollars therefor. It now devolves upon my department with neither extra men nor increased appropriation.

With my totally inadequate force to give them anything like the necessary attention, these sewers are rapidly filling up; thousands of tons of filth have been deposited therein, and unable to withstand the plethora, two of them have already bursted. Exclusive of the fact that their condition may in the near future result in accumulative damage suits against the city, their present plight is a perpetual menace to public health, and regarding their supervision as a sanitary measure, I would most forcibly urge that their care and attention be restored to their proper province, the Health Department.

The same argument obtains relative to the scavenger service, which formerly was likewise a branch of the Health Department, and for which an annual sum of twenty-five hundred dollars was appropriated. My department receives no compensation for this service, and as it is also a sanitary measure, I would advise its restoration to its former status.

In closing, I would add that in the incipiency of my tenure of office, special instructions were given to my district superintendents as to the observance of absoluute accuracy and reliability in their weekly reports. These reports constitute the foundation of the accompanying tables, the correctness of which may be faithfully relied upon.

While they will show that the expenditure of $380,928.40 resulted in the removing of 373,454 loads of all kinds, and comparison may be drawn between my totality and those contained in the reports of my predecessors, I would reply to the criticism by the assertion that the numbers of loads hauled as reported in the latter are unreliable and exaggerated. My attention was early directed to this matter, and after a thorough and exhaustive examination of the tables presented by former Democratic Commissioners of Street Cleaning, I found them "padded" to an astounding degree. Some of these figures represented one cart as hauling twenty-two loads per day, or one load in every twenty-four minutes. I repeat that my tables are positively free from any irregularities of such character, and may command absolute reliance.

Below I present my estimate of expenses for the year just commenced:

CITY.

Garbage carts and men	$161,928 00
Street carts and men	95,472 00
Sweepers and scrapers	111,280 00
Salaries	11,000 00
Sweeping-machines, sprinklers, etc	26,522 25
Sewer gang	10,400 00
Removal of garbage	4,900 00
Tools, repairs, etc	3,000 00
Dumps	2,500 00
10 extra patrol carts, at $25.00 per cart	250 00
10 men for same, at $10.00 per week	5,200 00
Contingent	800 00
Total for City	$433,252 25

ANNEX.

Garbage carts and men	$23,400 00
Street carts and men	14,040 00
Sweepers and scrapers	13,520 00
Sweeping-machines, sprinklers, etc	2,507 50
Salary of Superintendent	1,000 00
Tools	150 00
Total for Annex	$54,617 50

Respectfully submitted.

FREDERICK R. BYE, *Commissioner.*

TABLES.

WEEKLY REPORT OF WORK DONE IN THE STREET AND GAR-
AND REMOVED, NUMBER OF MEN EMPLOYED, NUM-
IN EACH SEPARATE DISTRICT. ALSO AMOUNT
FROM JANUARY 1, 1898,

DISTRICT No. 1. CHAS. L. STREBECK, SUPERINTENDENT.	Number of loads of garbage collect'd and removed.	Number of loads of ashes collected and removed.	Number of loads of street dirt, sand, snow, etc., collected and removed.	Cost of collecting and removing ashes and garbage.	Cost of collecting and removing street dirt, sand, snow, etc.
Week ending January 1...	134	502	340	$378 00	$478 32
" " " 8...	126	498	361	378 00	476 67
" " " 15...	120	469	241	378 00	472 66
" " " 22...	121	466	351	378 00	481 67
" " " 29...	120	476	284	378 00	481 67
	621	2,411	1,577	$1890 00	$2390 99
Week ending February 5..	100	499	552	$378 00	$481 66
" " " 12..	120	476	542	378 00	480 84
" " " 16..	.....	.....	498	.....	393 20
" " " 19..	116	475	289	378 00	481 66
" " " 26..	121	470	280	378 00	481 67
	457	1,920	2,161	$1512 00	$2319 03
Week ending March 5.....	121	469	287	$378 00	$481 67
" " " 12.....	120	476	280	378 00	481 66
" " " 19.....	134	393	346	378 00	481 67
" " " 26.....	131	357	273	378 00	481 66
	506	1,695	1,186	$1512 00	$1926 66
Week ending April 2.....	136	234	283	$378 00	$481 67
" " " 9.....	136	335	287	378 00	481 66
" " " 16.....	131	337	297	378 00	481 67
" " " 23.....	155	294	287	378 00	481 66
" " " 30.....	154	309	268	378 00	460 35
	712	1509	1,422	$1890 00	$2387 01
Week ending May 7.....	167	291	231	$378 00	$481 67
" " " 14.....	188	262	311	378 00	481 66
" " " 21.....	224	206	301	378 00	481 67
" " " 28.....	220	212	287	378 00	481 66
	799	971	1,130	$1512 00	$1926 66

BAGE DEPARTMENT, SHOWING NUMBER OF LOADS COLLECTED
BER OF STREET AND GARBAGE CARTS EMPLOYED
EXPENDED FOR TOOLS AND INCIDENTALS
TO DECEMBER 31, 1898.

Amount expended for sweeping machines, sprinklers, and repairs.	Amount expended for tools, etc.	Number of garbage carts and men employed.	Number of street carts and men employed.	Number of scrapers and sweepers employed.	Total number of loads of all kinds removed.	Total amount expended.
.....	.....	21	10	30	976	$856 32
$9 96	$4 21	21	10	30	985	868 84
.....	9 55	21	10	30	830	860 21
13 30	.....	21	10	30	938	872 97
39 63	6 80	21	10	30	880	906 10
$62 89	$20 56	.....			4,609	$4364 44
.....	.....	21	10	30	1,151	$859 66
$6 00	$3 55	21	10	30	1,138	868 39
.....	.....	..	11	25	498	*393 20
27 56	11 60	21	10	30	880	898 82
43 41	20 03	21	10	30	871	923 11
$76 97	$35 18	.....	.....		4,538	$3943 18
$29 73	.....	21	10	30	877	$889 40
45 34	.....	21	10	30	876	905 00
60 31	$7 20	21	10	30	873	927 18
31 54	6 80	21	10	30	761	898 00
$166 92	$14 00	.....			3,387	$3619 58
$33 99	.....	21	10	30	653	$893 66
28 73	$1 30	21	10	30	758	889 69
29 92	10 68	21	10	30	765	900 27
39 81	.....	21	10	30	736	899 47
39 58	8 05	21	10	30	731	885 98
$172 03	$20 03	.....			3,643	$4469 07
$42 36	....	21	10	30	689	$902 03
38 68	$8 50	21	10	30	761	906 84
36 72	30	21	10	30	731	896 69
40 79	....	21	10	30	719	900 45
$158 55	$8 80	.....	.....		2,900	$3606 01

*February 16 extra for cleaning off snow and ice.

DISTRICT No. 1. CHAS. L. STREBECK, SUPERINTENDENT.	Number of loads of garbage collect'd and removed.	Number of loads of ashes collected and removed.	Number of loads of street dirt, sand, snow, etc., collected and removed.	Cost of collecting and removing ashes and garbage.	Cost of collecting and removing street dirt, sand, snow, etc.
Week ending June 4.....	253	144	293	$378 00	$478 34
" " " 11.....	254	127	311	378 00	481 67
" " " 18.....	277	123	325	378 00	481 66
" " " 25.....	279	124	305	378 00	481 67
	1,063	518	1,234	$1512 00	$1923 34
Week ending July 2.....	279	124	311	$378 00	$481 66
" " " 9.....	269	112	229	378 00	481 67
" " " 16.....	295	124	293	378 00	481 66
" " " 23.....	288	114	305	378 00	476 67
" " " 30.....	290	120	298	378 00	468 33
	1,421	594	1,436	$1890 00	$2389 99
Week ending August 6.....	310	113	323	$378 00	$481 67
" " " 13.....	320	115	303	378 00	476 66
" " " 20.....	356	114	339	378 00	466 67
" " " 27.....	362	115	338	378 00	461 67
	1,348	457	1,303	$1512 00	$1886 67
Week ending Sept. 3.....	362	115	338	$378 00	$473 33
" " " 10.....	361	115	343	378 00	471 67
" " " 17.....	291	114	299	378 00	481 66
" " " 24.....	284	118	300	378 00	481 67
	1,298	462	1,280	$1512 00	$1908 33
Week ending Oct. 1.....	275	114	306	$378 00	$478 66
" " " 8.....	260	114	306	378 00	480 00
" " " 15.....	254	117	290	378 00	465 16
" " " 22.....	231	153	363	378 00	473 33
" " " 29.....	242	221	309	378 00	473 67
	1,262	719	1,574	$1890 00	$2370 82
Week ending Nov. 5.....	241	228	332	$378 00	$480 00
" " " 12.....	236	301	304	378 00	478 67
" " " 19.....	237	331	328	378 00	476 67
" " " 26.....	240	351	291	318 00	398 73
	954	1,211	1,255	$1452 00	$1834 07
Week ending Dec. 3.....	236	431	276	$378 00	$405 80
" " " 10.....	198	413	317	378 00	431 79
" " " 17.....	197	456	347	378 00	481 67
" " " 24.....	197	449	292	378 00	396 87
" " " 31.....	198	416	288	.....	.....
	1,026	2,165	1,520	$1512 00	$1716 13

Amount expended for sweeping machines, sprinklers, and repairs.	Amount expended for tools, etc.	Number of garbage carts and men employed.	Number of street carts and men employed.	Number of scrapers and sweepers employed.	Total number of loads of all kinds removed.	Total amount expended.
$38 32	.....	21	10	30	690	$894 66
57 46	$7 55	21	10	30	692	924 68
69 54	.....	21	10	30	725	929 20
56 92	.....	21	10	30	708	916 59
$222 24	$7 55	.....	.....	.....	2,815	$3665 13
$62 02	$6 80	21	10	30	714	$928 48
68 25	.....	21	10	30	610	927 92
66 55	.....	21	10	30	712	926 21
49 00	6 80	21	10	30	707	910 47
68 46	.....	21	10	30	708	914 79
$314 28	$13 60	.....	.....	.....	3,451	$4607 87
$52 08	$1 50	21	10	30	746	$913 25
36 84	6 80	21	10	30	738	898 30
52 03	.....	21	10	30	809	896 70
58 32	.....	21	10	28	815	897 99
$199 27	$8 30	.....	.....	.....	3,108	$3606 24
$58 51	$7 30	21	10	30	815	$917 14
54 56	.....	21	10	30	819	904 23
66 85	.....	21	10	30	704	926 51
58 80	.....	21	10	30	702	918 47
$238 72	$7 30	.....	.....	.....	3,040	$3666 35
$61 06	$9 20	21	10	30	695	$926 92
49 48	.....	21	10	30	680	907 48
57 48	.....	21	10	30	661	900 64
49 33	.....	21	10	30	747	900 66
59 58	.....	21	10	30	772	911 25
$276 93	$9 20	.....	.....	.....	3,555	$4546 95
$42 85	$6 80	21	10	30	801	$907 65
43 37	.....	21	10	30	841	900 04
36 13	.....	21	10	30	896	890 80
25 21	.....	21	10	30	882	741 94
$147 56	$6 80	.....	.....	.....	3,420	$3440 43
$42 49	.....	21	10	30	943	$826 29
32 58	$15 87	21	10	30	928	858 24
30 87	11 35	21	10	30	1,000	901 89
24 38	.....	21	10	30	938	799 25
.....	.....	21	10	30	902	.....
$130 32	$27 22	.....	.....	.....	4,711	$3385 67

DISTRICT No. 2. JOSEPH H. COOPER, SUPERINTENDENT.	Number of loads of garbage collect'd and removed.	Number of loads of ashes collected and removed.	Number of loads of street dirt, sand, snow, etc., collected and removed.	Cost of collecting and removing ashes and garbage.	Cost of collecting and removing street dirt, sand, snow, etc.
Week ending January 1	.....	.....	141	.....	$278 00
" " " 8	.....	.....	161	.....	278 00
" " " 15	.....	.....	113	.....	275 00
" " " 22	.....	.....	158	.....	278 00
" " " 29	.....	.....	164	.....	278 00
	.....	.....	737	.....	$1387 00
Week ending February 5	.....	.....	142	.....	$278 00
" " " 12	.....	.....	208	.....	278 00
" " " 16	.....	.....	241	.....	224 00
" " " 19	.....	.....	139	.....	278 00
" " " 26	.....	.....	161	.....	277 17
	.....	.....	891	.....	$1335 17
Week ending March 5	.....	.....	138	.....	$276 34
" " " 12	.....	.....	162	.....	278 00
" " " 19	.....	.....	167	.....	278 00
" " " 26	.....	.....	143	.....	278 00
	.....	.....	610	.....	$1110 34
Week ending April 2	.....	.....	132	.....	$278 00
" " " 9	.....	.....	142	.....	276 33
" " " 16	.....	.....	166	.....	278 00
" " " 23	11	18	165	$36 00	286 33
" " " 30	11	37	132	36 00	287 17
	22	85	737	$72 00	$1405 83
Week ending May 7	11	39	152	$36 00	$298 00
" " " 14	12	39	192	36 00	332 33
" " " 21	11	32	184	36 00	334 00
" " " 28	11	42	202	36 00	334 00
	45	152	730	$144 00	$1298 33
Week ending June 4	16	27	207	$36 00	$332 34
" " " 11	26	68	191	72 00	330 66
" " " 18	39	55	174	90 00	334 00
" " " 25	41	50	201	90 00	334 00
	122	200	773	$288 00	$1331 00

Amount expended for sweeping machines, sprinklers, and repairs.	Amount expended for tools, etc.	Number of garbage carts and men employed.	Number of street carts and men employed.	Number of scrapers and sweepers employed.	Total number of loads of all kinds removed.	Total amount expended.
.....	.....	.....	6	17	141	$278 00
$10 96	$15 56	.....	6	17	161	304 52
2 00	59 25	.....	6	17	113	336 25
18 55	.....	.....	6	17	158	296 55
19 88	8 72	.....	6	17	164	306 60
$51 39	$83 53	.....	.....	.....	737	$1,521 92
.....	.....	.....	6	17	142	$278 00
.....	$1 20	.....	6	17	208	279 20
.....	.....	.....	8	8	241	*224 00
$18 56	3 00	.....	6	17	139	299 56
40 41	1 90	.....	6	17	161	319 48
$58 97	$6 10	.....	.....	.....	891	$1,400 24
$39 23	.....	.....	6	17	138	$315 57
58 84	.....	.....	6	17	162	336 84
59 31	$10 20	.....	6	17	167	347 51
23 54	1 25	.....	6	17	143	302 79
$180 92	$11 45	.....	.....	.....	610	$1,302 71
$33 99	.....	.....	6	17	132	$311 99
28 73	.....	.....	6	17	142	305 06
29 92	$10 70	.....	6	17	166	318 62
39 81	.....	2	7	18	224	362 14
39 58	.....	2	6	18	180	362 75
$172 03	$10 70	.....	.....	.....	844	$1,660 56
$42 36	.....	2	6	19	202	$376 36
38 68	.....	2	8	19	243	407 01
36 72	$6 80	2	8	19	227	413 52
40 79	1 75	2	8	19	255	412 54
$158 55	$8 55	.....	.....	.....	927	$1,609 43
$38 27	$10 20	2	8	19	250	$416 81
57 45	50	4	8	19	285	460 61
69 53	.....	5	8	19	268	493 53
56 92	.....	5	8	19	292	480 92
$222 17	$10 70	.....	.....	.....	1,095	$1,851 87

*February 16 extra for cleaning off snow and ice.

DISTRICT No. 2. JOSEPH H. COOPER, SUPERINTENDENT.	Number of loads of garbage collect'd and removed.	Number of loads of ashes collected and removed.	Number of loads of street dirt, sand, snow, etc., collected and removed.	Cost of collecting and removing ashes and garbage.	Cost of collecting and removing street dirt, sand, snow, etc.
Week ending July 2.....	52	49	190	$90 00	$334 00
" " " 9.....	43	49	173	90 00	334 00
" " " 16.....	41	60	192	90 00	334 00
" " " 23.....	37	59	194	90 00	334 00
" " " 30.....	60	30	187	90 00	331 51
	233	247	936	$450 00	$1667 51
Week ending August 6....	70	44	190	$90 00	$333 99
" " " 13....	94	53	192	90 00	334 00
" " " 20....	71	30	212	90 00	334 00
" " " 27....	74	37	219	90 00	330 67
	309	164	813	$360 00	$1332 66
Week ending Sept. 3.....	71	37	203	$90 00	$328 16
" " " 10.....	74	38	199	90 00	332 33
" " " 17.....	65	32	206	90 00	329 83
" " " 24.....	61	32	186	90 00	332 33
	271	139	794	$360 00	$1322 65
Week ending Oct. 1.....	41	55	196	$90 00	$334 00
" " " 8.....	45	46	191	90 00	334 00
" " " 15.....	49	53	190	90 00	334 00
" " " 22.....	35	71	192	90 00	334 00
" " " 29.....	49	63	175	90 00	307 89
	219	288	944	$450 00	$1643 89
Week ending Nov. 5.....	51	62	192	$90 00	$334 00
" " " 12.....	33	83	162	90 00	279 95
" " " 19.....	36	81	260	90 00	268 29
" " " 26.....	36	129	153	75 00	267 61
	156	355	707	$345 00	$1149 85
Week ending Dec. 3.....	32	131	195	$90 00	$318 34
" " " 10.....	31	182	198	108 00	323 17
" " " 17.....	31	200	214	108 00	323 17
" " " 24.....	24	197	183	108 00	293 94
" " " 31.....	21	196	159	.....	.....
	139	906	949	$414 00	$1258 62

Amount expended for sweeping machines, sprinklers, and repairs,	Amount expended for tools, etc.	Number of garbage carts and men employed.	Number of street carts and men employed.	Number of scrapers and sweepers employed.	Total number of loads of all kinds removed.	Total amount expended.
$62 02	$10 70	5	8	19	291	$496 72
68 25	.....	5	8	19	265	492 25
66 55	.....	5	8	19	293	490 55
49 00	.....	5	8	19	290	473 00
68 46	6 16	5	8	19	277	496 13
$314 28	$16 86	.....	.....	.....	1,416	$2448 65
$52 08	.....	5	8	19	304	$476 07
36 84	$9 30	5	8	19	339	470 14
52 03	.....	5	8	19	313	476 03
58 32	.....	5	8	19	330	478 99
$199 27	$9 30	.....	.....	.....	1,286	$1901 23
$58 51	.....	5	8	19	311	$476 67
54 56	.....	5	8	19	311	476 89
66 85	$10 20	5	8	19	303	496 88
58 80	.....	5	8	19	279	481 13
$238 72	$10 20	.....	.....	.....	1,204	$1931 57
$61 06	.....	5	8	19	292	$485 06
49 48	.....	5	8	19	282	473 48
57 48	.....	5	8	19	292	481 48
49 33	$16 40	5	8	19	298	489 73
59 58	.....	5	8	19	287	457 47
$276 93	$16 40	.....	.....	.....	1,451	$2387 22
$42 85	.....	5	8	19	305	$466 85
43 37	.....	5	8	19	278	413 32
36 13	.....	5	8	19	317	394 42
25 21	.....	5	8	18	318	367 82
$147 56	.....	.....	.....	.....	1,218	$1642 41
$42 49	.....	5	8	18	358	$450 83
32 58	.....	6	8	18	411	463 75
30 87	.....	6	8	18	445	462 04
24 38	$2 80	6	8	18	404	429 12
.....	.....	6	8	18	376	.....
$130 32	$2 80	.....	.....	.....	1,994	$1805 74

DISTRICT No. 3. — R. LEWIS MORTON, SUPERINTENDENT.	Number of loads of garbage collect'd and removed.	Number of loads of ashes collected and removed.	Number of loads of street dirt, sand, snow, etc., collected and removed.	Cost of collecting and removing ashes and garbage.	Cost of collecting and removing street dirt, sand, snow, etc.
Week ending January 1...	34	393	461	$288 00	$658 67
" " " 8...	34	402	446	288 00	676 32
" " " 15...	37	392	365	288 00	599 43
" " " 22...	33	399	392	288 00	677 17
" " " 29...	31	395	364	288 00	665 00
	169	1,981	2,028	$1440 00	$3276 59
Week ending February 5..	28	406	691	$282 00	$671 33
" " " 12..	31	408	591	288 00	677 17
" " " 17..	.....	.....	240	.....	254 00
" " " 19..	28	405	388	288 00	668 32
" " " 26..	34	402	439	288 00	664 66
	121	1,621	2,349	$1146 00	$2935 48
Week ending March 5	34	414	377	$288 00	$665 99
" " " 12*....	39	394	469	288 00	678 00
" " " 19	38	376	426	288 00	668 81
" " " 26	44	360	419	288 00	687 50
	155	1,544	1,691	$1152 00	$2700 30
Week ending April 2.....	51	350	372	$288 00	$602 59
" " " 9.....	50	345	430	288 00	678 00
" " " 16.....	67	311	413	288 00	678 00
" " " 23.....	77	304	418	288 00	678 00
" " " 30.....	75	315	316	288 00	678 00
	320	1,625	1,949	$1440 00	$3314 59
Week ending May 7.....	75	305	421	$288 00	$593 60
" " " 14.....	77	292	444	288 00	642 00
" " " 21.....	78	276	473	288 00	573 95
" " " 28.....	63	316	523	288 00	632 00
	293	1,189	1,861	$1152 00	$2441 55
Week ending June 4.....	83	271	490	$288 00	$632 00
" " " 11.....	89	258	518	288 00	632 00
" " " 18.....	90	248	489	288 00	642 00
" " " 25.....	90	243	526	288 00	642 00
	352	1,020	2,023	$1152 00	$2548 00

*Mr. R. Lewis Morton succeeded William P. Lansey as Superintendent, March 12.

Amount expended for sweeping machines, sprinklers, and repairs.	Amount expended for tools, etc.	Number of garbage carts and men employed.	Number of street carts and men employed.	Number of scrapers and sweepers employed.	Total number of loads of all kinds removed.	Total amount expended.
$43 43	$5 10	16	21	30	888	$995 20
76 43	50	16	21	30	882	1041 25
100 00	21 75	16	21	30	794	1009 18
64 35	.....	16	21	30	824	1029 52
64 94	10 25	16	21	30	790	1028 19
$349 15	$37 60	.....	.....	.....	4,078	$5103 34
$12 75	$30 30	16	21	30	1,125	$996 38
29 25	9 20	16	21	30	1,030	1003 62
.....	.....	.....	8	11	240	†254 00
38 58	3 60	16	21	30	821	998 50
98 86	26 15	16	21	30	875	1077 67
$179 44	$69 25	.....	.....	.....	4,091	$4330 17
$50 74	.....	16	21	30	825	$1004 73
88 74	$ 50	16	21	30	902	1055 24
101 15	18 50	16	21	30	840	1076 56
88 62	.....	16	22	30	823	1064 12
$329 25	$19 10	.....	.....	.....	3,390	$4200 65
$68 05	.....	16	21	30	773	$958 64
57 53	$99 50	16	21	30	825	1123 03
59 91	21 60	16	21	30	791	1047 51
79 65	8 76	16	21	30	799	1054 41
79 19	9 30	16	21	30	706	1054 49
$344 33	$139 16	.....	.....	.....	3,894	$5238 08
$84 80	.....	16	21	30	801	$966 40
77 42	$14 40	16	19	30	813	1021 82
73 50	16 10	16	19	29	827	951 55
81 58	20 37	16	19	29	902	1021 95
$317 30	$50 87	.....	.....	.....	3,343	$3961 72
$76 54	.....	16	19	29	844	$996 54
114 90	.....	16	19	29	865	1034 90
139 06	$19 80	16	19	30	827	1088 86
113 85	.....	16	19	30	859	1043 85
$444 35	$19 80	.....	.....	.....	3,395	$4164 15

†February 17, extra for cleaning off snow and ice.

DISTRICT No. 3. R. LEWIS MORTON, SUPERINTENDENT.	Number of loads of garbage collect'd and removed.	Number of loads of ashes collected and removed.	Number of loads of street dirt, sand, snow, etc., collected and removed.	Cost of collecting and removing ashes and garbage.	Cost of collecting and removing street dirt, sand, snow, etc.
Week ending July 2.....	103	267	493	$360 00	$642 00
" " " 9.....	122	295	434	360 00	642 00
" " " 16.....	115	286	528	360 00	642 00
" " " 23.....	113	292	477	342 00	642 00
" " " 30.....	117	291	485	342 00	638 67
	570	1,431	2,417	$1764 00	$3206 67
Week ending August 6....	118	305	452	$342 00	$639 00
" " " 13....	118	297	405	342 00	582 28
" " " 20....	127	296	482	342 00	619 64
" " " 27....	127	285	500	342 00	634 44
	490	1,183	1,839	$1368 00	$2475 36
Week ending Sept. 3.....	129	285	540	$342 00	$662 10
" " " 10.....	131	284	524	342 00	642 00
" " " 17.....	129	302	489	342 00	662 00
" " " 24.....	118	300	503	342 00	652 00
	507	1,171	2,056	$1368 00	$2618 10
Week ending Oct. 1.....	113	305	500	$342 00	$652 00
" " " 8.....	114	313	446	342 00	652 00
" " " 15.....	107	321	475	342 00	652 00
" " " 22.....	98	341	409	342 00	594 61
" " " 29.....	96	352	425	342 00	593 78
	528	1,632	2,255	$1710 00	$3144 39
Week ending Nov. 5.....	96	355	528	$342 00	$652 00
" " " 12.....	89	389	525	334 50	620 75
" " " 19.....	86	379	507	324 00	594 60
" " " 26.....	70	388	406	273 00	519 45
	341	1,511	1,966	$1273 50	$2386 80
Week ending Dec. 3.....	76	412	507	$324 00	$615 06
" " " 10.....	83	425	512	324 00	642 66
" " " 17.....	61	445	509	324 00	636 11
" " " 24.....	61	445	531	324 00	638 62
" " " 31.....	54	488	440	.....	.....
	335	2,215	2,499	$1296 00	$2532 45

Amount expended for sweeping machines, sprinklers, and repairs.	Amount expended for tools, etc.	Number of garbage carts and men employed.	Number of street carts and men employed.	Number of scrapers and sweepers employed.	Total number of loads of all kinds removed.	Total amount expended.
$124 05	$20 50	20	19	30	863	$1146 55
136 55	.....	20	19	30	851	1138 55
133 14	19 80	20	19	30	929	1151 94
98 06	.....	19	19	30	882	1082 06
136 94	56	19	19	30	893	1118 17
$628 74	$40 86	.....	.....	.....	4,418	$5640 27
$104 16	$19 80	19	19	30	875	$1104 96
73 69	.....	19	19	30	820	997 97
104 11	.....	19	19	30	905	1065 75
116 66	.....	19	19	30	912	1093 10
$398 62	$19 80	.....	.....	.....	3,512	$4261 78
$117 06	$2 11	19	19	30	954	*$1123 27
109 17	20 40	19	19	30	939	1113 57
133 76	29	19	19	31	920	1138 05
117 67	.....	19	19	31	921	1111 67
$477 66	$22 80	.....	.....	.....	3,734	$4486 56
$122 20	$20 40	19	19	31	918	$1136 60
99 00	.....	19	19	31	873	1093 00
111 96	.....	19	19	31	903	1108 96
98 71	7 48	19	19	31	848	1042 80
119 21	.....	19	19	31	873	1054 99
$554 08	$27 88	.....	.....	.....	4,415	$5436 35
$85 71	$15 00	19	19	31	979	$1094 71
86 76	.....	19	19	31	1,003	1042 01
72 32	20 40	19	19	31	972	1011 32
50 42	1 00	19	19	31	864	843 87
$295 21	$36 40	.....	.....	.....	3,818	$3991 91
$85 02	.....	19	19	31	995	$1024 08
65 19	$63 08	19	19	31	1,020	1094 93
61 74	.....	19	19	31	1,015	1021 85
48 80	....	18	19	31	1,037	1011 42
.....	.....	19	19	31	982	.....
$260 75	$63 08	.....	.....	.....	5,049	$4152 28

* Two extra street carts and nine extra scrapers were employed August 28.

DISTRICT No. 4. JOHN C. WEAVER, SUPERINTENDENT.	Number of loads of garbage collect'd and removed.	Number of loads of ashes collected and removed.	Number of loads of street dirt, sand, snow, etc., collected and removed.	Cost of collecting and removing ashes and garbage.....	Cost of collecting and removing street dirt, sand, snow, etc.
Week ending January 1...	88	970	336	$522 00	$468 00
" " " 8...	87	993	340	522 00	468 00
" " " 15...	78	993	336	522 00	468 00
" " " 22...	78	917	338	522 00	468 00
" " " 29...	71	831	336	522 00	464 66
	402	4,704	1,686	$2610 00	$2336 66
Week ending February 5..	63	835	444	$522 00	$468 00
" " " 12..	75	817	444	522 00	468 00
" " " 16..	.....	.....	330	.....	318 33
" " " 19..	75	872	394	522 00	468 00
" " " 19..	.....	.....	180	.....	170 00
" " " 26	86	941	396	522 00	468 00
	299	3,465	2,188	$2088 00	$2360 33
Week ending March 5.....	83	928	390	$522 00	$468 00
" " " 12*....	83	767	462	522 00	468 00
" " " 19.....	99	843	462	522 00	468 00
" " " 26.....	117	648	504	510 00	452 64
	382	3,186	1,818	$2076 00	$1856 64
Week ending April 2	128	661	462	$522 00	$468 00
" " " 9	137	666	462	522 00	452 13
" " " 16.. ..	160	599	462	522 00	468 00
" " " 23.....	191	757	497	522 00	483 00
" " " 30.....	196	529	411	522 00	499 84
	812	3,212	2,294	$2610 00	$2370 97
Week ending May 7.....	174	479	481	$522 00	$502 34
" " " 14.....	215	616	456	522 00	489 68
" " " 21.....	258	384	467	522 00	489 02
" " " 28.....	241	293	486	522 00	482 34
	888	1,772	1,890	$2088 00	$1963 38
Week ending June 4.....	340	343	537	$522 00	$489 01
" " " 11.....	291	249	425	450 00	492 34
" " " 18.....	327	219	474	450 00	493 17
" " " 25.....	296	194	490	450 00	493 13
	1,254	1,005	1,926	$1872 00	$1967 65

*Mr. John C. Weaver succeeded George F. Cooper, as superintendent, March 12.

Amount expended for sweeping machines, sprinklers, and repairs.	Amount expended for tools, etc.	Number of garbage carts and men employed.	Number of street carts and men employed.	Number of scrapers and sweepers employed.	Total number of loads of all kinds removed.	Total amount expended.
.....	$1 33	29	11	27	1394	$991 33
$8 46	.....	29	11	27	1420	998 46
.....	.....	29	11	27	1407	990 00
17 05	10 20	29	11	27	1333	1017 25
12 88	27 25	29	11	27	1238	1026 79
$38 39	$38 78	.....	.....	.....	6792	$5023 83
.....	$5 75	29	11	27	1342	$995 75
.....	13 80	29	11	27	1336	1003 80
.....	.....	.....	10	16	330	§318 33
$22 56	.....	29	11	27	1341	1012 56
.....	.....	.....	10	16	180	§170 00
24 91	18 65	29	11	27	1423	1033 56
$47 47	$38 20	.....	.....	.....	5952	$4534 00
$33 23	$24 12	29	11	27	1401	$1017 35
40 84	.....	29	11	27	1312	1030 84
26 81	23 92	29	11	27	1404	1040 73
32 54	.....	29	11	27	1269	995 18
$133 42	$48 04	.....	.....	.....	5386	$4114 10
$33 99	.....	29	11	27	1251	$1023 99
28 73	$17 45	29	11	27	1265	1020 31
29 92	.....	29	11	27	1221	1019 92
39 81	7 95	29	12	27	1145	1052 76
39 58	15 48	29	13	27	1136	1076 90
$172 03	$40 88	.....	.....	.....	6318	$5193 88
$42 36	.....	29	13	27	1131	$1066 70
38 68	$6 78	29	13	27	1287	1057 14
36 72	.....	29	13	27	1109	1047 74
40 79	14 10	29	13	26	1020	1059 23
$158 55	$20 88	.....	.....	.....	4550	$4230 81
$38 27	.....	29	13	26	1220	$1049 28
57 45	$4 87	25	13	26	965	1004 66
69 53	16 35	25	13	26	1020	1029 05
56 92	12 70	25	13	26	980	1012 75
$222 17	$33 92	.....	.....	.....	4185	$4095 74

§February 16 and 19 extra for cleaning off snow and ice.

DISTRICT No. 4. JOHN C. WEAVER, SUPERINTENDENT.	Number of loads of garbage collect'd and removed.	Number of loads of ashes collected and removed.	Number of loads of street dirt, sand, snow, etc., collected and removed.	Cost of collecting and removing ashes and garbage.	Cost of collecting and removing street dirt, sand, snow, etc.
Week ending July 2.....	247	131	338	$450 00	$494 00
" " " 9.....	340	182	329	450 00	494 00
" " " 16.....	290	162	464	450 00	490 68
" " " 23.....	299	166	682	450 00	494 00
" " " 30.....	318	168	550	450 00	494 00
	1,494	809	2,363	$2250 00	$2466 68
Week ending August 6....	358	156	581	$450 00	$494 00
" " " 13....	384	148	502	450 00	494 00
" " " 20....	426	157	503	450 00	489 00
" " " 27....	458	131	505	450 00	494 00
	1,626	592	2,091	$1800 00	$1971 00
Week ending Sept. 3.....	369	154	504	$450 00	$494 00
" " " 10.....	414	166	503	450 00	494 00
" " " 17.....	401	140	503	450 00	492 34
" " " 24.....	312	149	504	450 00	489 00
	1,496	609	2,014	$1800 00	$1969 34
Week ending Oct. 1.....	292	142	453	$450 00	$504 00
" " " 8.....	287	197	453	450 00	423 13
" " " 15.....	275	169	505	468 00	499 84
" " " 22.....	208	266	506	450 00	496 00
" " " 29.....	204	336	350	450 00	493 67
	1,266	1,110	2,267	$2268 00	$2416 64
Week ending Nov. 5.....	191	427	497	$450 00	$492 66
" " " 12.....	169	404	501	450 00	486 00
" " " 19.....	171	477	505	468 00	504 00
" " " 26.....	145	528	359	381 00	419 35
	676	1,836	1,862	$1749 00	$1902 01
Week ending Dec. 3.....	132	618	454	$468 00	$491 34
" " " 10.....	120	711	493	504 00	494 84
" " " 17.....	104	724	489	504 00	473 18
" " " 24.....	83	732	408	504 00	446 65
" " " 31.....	92	667	312	.....	.....
	531	3,452	2,156	$1980 00	$1906 01

Amount expended for sweeping machines, sprinklers, and repairs.	Amount expended for tools, etc.	Number of garbage carts and men employed.	Number of street carts and men employed.	Number of scrapers and sweepers employed.	Total number of loads of all kinds removed.	Total amount expended.
$62 02	$7 50	25	13	26	716	$1013 52
68 25	.....	25	13	26	851	1012 25
66 55	3 75	25	13	26	916	1010 98
49 00	.....	25	13	26	1147	993 00
68 46	21 70	25	13	26	1036	1034 16
$314 28	$32 95	.....	.....	.....	1666	$5063 91
$52 08	.....	25	13	26	1095	$996 08
36 84	.....	25	13	26	1034	980 84
52 03	.....	25	13	26	1086	991 03
58 32	.....	25	13	26	1094	1002 32
$199 27	.....	.....	.....	.....	1309	$3970 27
$58 51	.....	25	13	26	1027	$1002 51
54 56	$13 60	25	13	26	1083	1012 16
66 85	.....	25	13	26	1044	1009 19
58 80	.....	25	13	26	965	997 80
$238 72	$13 60	.....	.....	.....	1119	$4021 66
$61 06	.....	25	13	27	887	$1015 06
49 48	.....	25	13	27	937	922 61
57 48	.....	26	13	27	949	1025 32
49 33	.....	25	13	27	980	995 33
59 58	$15 40	25	13	27	890	1018 65
$276 93	$15 40	.....	.....	.....	1643	$4976 97
$42 85	.....	25	13	27	1115	$985 51
43 37	.....	25	13	27	1074	979 37
36 13	$11 82	26	13	27	1153	1019 95
25 21	.....	26	13	27	1032	825 56
$147 56	$11 82	.....	.....	.....	4374	$3810 39
$42 49	$30 50	26	13	27	1204	$1032 33
32 58	2 65	28	13	27	1324	1034 07
30 87	.....	28	13	26	1317	1008 05
24 38	.....	28	13	26	1223	975 03
.....	.....	28	13	25	1071	.....
$130 32	$33 15	.....	.....	.....	6139	$4049 48

DISTRICT No. 5. JOHN T. CARTER, SUPERINTENDENT.	Number of loads of garbage collected and removed.	Number of loads of ashes collected and removed.	Number of loads of street dirt, sand, snow, etc., collected and removed.	Cost of collecting and removing ashes and garbage.	Cost of collecting and removing street dirt, sand, snow, etc.
Week ending January 1...	80	745	700	$486 00	$440 00
" " " 8...	81	757	432	486 00	446 00
" " " 15...	79	755	432	486 00	446 00
" " " 22...	81	751	432	486 00	446 00
" " " 29...	81	756	420	486 00	435 00
	402	3764	2416	$2430 00	$2213 00
Week ending February 5..	81	774	420	$486 00	$440 00
" " " 12..	81	763	720	486 00	444 33
" " " 16..	....	.....	272	.....	177 00
" " " 19..	81	795	655	486 00	401 50
" " " 24..	.....	.....	112	.....	78 66
" " " 26..	81	762	432	486 00	456 00
	324	3094	2611	$1944 00	$1997 49
Week ending March 5. ..	81	765	432	$483 00	$452 66
" " " 12.....	81	763	432	186 00	454 33
" " " 19*....	73	663	235	477 00	401 96
" " " 26.....	74	610	322	486 00	464 51
	309	2801	1421	$1932 00	$1773 46
Week ending April 2.....	85	624	256	$477 00	$384 00
" " " 9.....	83	641	192	486 00	384 33
" " " 16.....	103	542	202	480 00	400 33
" " " 23.....	146	515	171	486 00	401 17
" " " 30.....	150	497	201	486 00	372 33
	567	2819	1022	$2415 00	$1942 16
Week ending May 7.....	155	449	193	$486 00	$383 17
" " " 14.....	157	452	185	486 00	384 00
" " " 21.....	159	424	194	486 00	370 67
" " " 28.....	137	349	192	486 00	374 00
	608	1674	764	$1944 00	$1511 84
Week ending June 4.....	194	430	204	$486 00	$374 00
" " " 11.....	151	331	201	432 00	372 33
" " " 18.....	120	213	195	342 00	364 83
" " " 25.....	121	209	195	342 00	362 33
	586	1183	795	$1602 00	$1473 49

*Mr. John T. Carter succeeded Henry Lancaster as Superintendent, March 19.

Amount expended for sweeping machines, sprinklers, and repairs.	Amount expended for tools, etc.	Number of garbage carts and men employed.	Number of street carts and men employed.	Number of scrapers and sweepers employed.	Total number of loads of all kinds removed.	Total amount expended.
.....	.....	27	12	23	1525	$926 00
$10 96	.....	27	12	23	1270	942 96
12 75	.....	27	12	23	1266	944 75
22 30	$6 76	27	12	23	1264	961 06
24 38	19 00	27	12	23	1257	964 38
$70 39	$25 76	.....	.....	.....	6582	$4739 15
.....	$3 00	27	12	23	1275	$929 00
.....	.....	27	12	23	1564	930 33
.....	.....	.....	8	11	272	†177 00
$17 31	.....	27	12	23	1531	904 81
.....	.....	.....	8	11	112	†78 66
31 91	19 70	27	12	24	1275	993 61
$49 22	$22 70	.....	.....	.....	6029	$4013 41
$34 98	.....	27	12	24	1278	$970 64
42 59	.....	27	12	24	1276	982 92
12 81	$7 80	27	12	24	971	929 57
41 29	7 30	27	12	25	1006	999 10
$161 67	$15 10	.....	.....	.....	4531	$3882 23
$33 99	.....	27	8	24	965	$894 99
28 73	.....	27	9	23	916	899 06
29 92	$9 80	27	9	24	847	920 05
39 81	6 80	27	9	24	832	933 78
39 58	.....	27	8	24	848	897 91
$172 03	$16 60	.....	.....	.....	4408	$4545 79
$42 36	$6 80	27	8	24	797	$918 33
38 68	.....	27	8	24	794	908 68
36 72	8 05	27	8	23	777	901 44
40 79	7 30	27	8	23	678	908 09
$158 55	$22 15	.....	.....	.....	3046	$3636 54
$38 27	$8 00	27	8	23	828	$906 27
57 45	.....	24	8	23	683	861 78
69 53	.....	19	8	23	528	776 36
56 92	9 90	19	8	22	525	771 15
$222 17	$17 90	.....	.....	.....	2564	$3315 56

†February 16 and 24 extra for cleaning off snow and ice.

DISTRICT No. 5. JOHN T. CARTER, SUPERINTENDENT.	Number of loads of garbage collected and removed.	Number of loads of ashes collected and removed.	Number of loads of street dirt, sand, snow, etc., collected and removed.	Cost of collecting and removing ashes and garbage.	Cost of collecting and removing street dirt, sand, snow, etc.
Week ending July 2.....	70	126	201	$252 00	$369 00
" " " 9.....	92	172	160	252 00	374 00
" " " 16.....	81	150	207	252 00	370 67
" " " 23.....	82	148	196	252 00	372 33
" " " 30.....	82	153	193	234 00	374 00
	407	749	960	$1242 00	$1860 00
Week ending August 6..	85	144	187	$234 00	$374 00
" " " 13..	87	138	200	234 00	374 00
" " " 20..	94	141	185	234 00	370 67
" " " 27..	95	142	202	234 00	372 33
	361	565	774	$936 00	$1491 00
Week ending September 3.	79	118	191	$234 00	$373 17
" " " 10.	102	146	195	246 00	359 33
" " " 17.	114	178	194	252 00	362 33
" " " 24.	101	182	183	252 00	370 67
	396	624	763	$984 00	$1465 50
Week ending October 1...	92	198	178	$252 00	$374 00
" " " 8...	94	190	186	252 00	383 00
" " " 15...	85	207	183	270 00	374 00
" " " 22...	83	232	160	265 50	296 83
" " " 29...	82	257	185	270 00	374 00
	436	1084	892	$1309 50	$1801 83
Week ending November 5.	76	281	169	$270 00	$374 00
" " " 12.	84	311	185	270 00	374 00
" " " 19.	74	326	185	270 00	370 66
" " " 26.	58	349	144	223 50	284 99
	292	1267	683	$1033 50	$1403 65
Week ending December 3.	67	336	184	$252 00	$382 33
" " " 10.	60	334	185	234 00	384 00
" " " 17.	40	331	185	234 00	384 00
" " " 24.	38	342	185	234 00	343 09
" " " 31.	37	332	189	.....	.....
	242	1675	928	$954 00	$1493 42

Amount expended for sweeping machines, sprinklers, and repairs.	Amount expended for tools, etc.	Number of garbage carts and men employed.	Number of street carts and men employed.	Number of scrapers and sweepers employed.	Total number of loads of all kinds removed.	Total amount expended.
$62 02	.....	14	8	23	400	$683 02
68 25	$9 30	14	8	23	424	703 55
66 55	.....	14	8	23	438	689 22
49 00	.....	14	8	23	426	673 33
68 46	8 78	13	8	23	428	685 24
$311 28	$18 08	.....	.....	.....	2116	$3434 36
$52 08	$10 20	13	8	23	416	$670 28
36 81	.....	13	8	23	425	644 84
52 03	.....	13	8	23	420	656 70
58 32	.....	13	8	23	439	664 65
$199 27	$10 20	.....	.....	.....	1700	$2636 47
$58 51	$10 20	13	8	23	388	$675 88
54 56	.....	14	8	22	443	659 89
66 85	.....	14	8	22	486	681 18
58 80	.....	14	8	23	466	681 47
$238 72	$10 20	.....	.....	.....	1783	$2698 42
$61 06	$10 20	14	8	23	468	$697 26
49 48	.....	14	9	23	470	684 48
57 48	.....	15	8	23	475	701 48
49 33	9 90	15	8	23	475	621 56
59 58	.....	15	8	23	524	703 58
$276 93	$20 10	.....	.....	.....	2412	$3408 36
$42 85	.....	15	8	23	526	$686 85
43 37	.....	15	8	23	580	687 37
36 13	$27 10	15	8	23	585	704 19
25 21	.....	15	8	23	551	533 70
$147 56	$27 40	.....	.....	.....	2242	$2612 11
$42 49	$10 20	14	8	24	587	$687 02
32 58	.....	13	8	24	579	650 58
30 87	30 05	13	8	24	556	678 92
24 38	.....	13	8	24	565	601 47
.....	.....	13	8	24	558	.....
$130 32	$40 25	.....	.....	.....	2845	$2617 99

DISTRICT No. 6. WILLIAM A. POIST, SUPERINTENDENT.	Number of loads of garbage collect'd and removed.	Number of loads of ashes collected and removed.	Number of loads of street dirt, sand, snow, etc., collected and removed.	Cost of collecting and removing ashes and garbage.	Cost of collecting and removing street dirt, sand, snow, etc.
Week ending January 1...	60	1,100	445	$522 00	$463 33
" " " 8...	61	1,092	447	522 00	464 99
" " " 15...	60	1,085	413	522 00	449 97
" " " 22...	59	1,058	388	522 00	451 30
" " " 29...	59	1,064	417	522 00	462 62
	299	5,399	2,110	$2610 00	$2292 21
Week ending February 5..	56	1,114	368	$522 00	$433 02
" " " 12..	59	1,111	632	522 00	473 00
" " " 16..	....	.....	491	.....	361 48
" " " 19..	59	1,114	394	522 00	440 95
" " " 23.....	.....	.....	124	.....	69 49
" " " 26..	59	1,096	420	522 00	458 64
	233	4,435	2,429	$2088 00	$2236 58
Week ending March 5. ..	59	1,116	409	$522 00	$460 19
" " " 12.....	59	1,088	428	522 00	468 00
" " " 19.....	63	1,005	418	522 00	483 00
" " " 26*....	67	972	422	522 00	451 29
	248	4,181	1,677	$2088 00	$1862 78
Week ending April 2.....	68	969	568	$522 00	$549 99
" " " 9.....	69	972	542	522 00	473 15
" " " 16.....	86	900	563	510 00	514 81
" " " 23.....	134	815	484	522 00	512 00
" " " 30.....	130	809	298	522 00	461 63
	487	4,465	2,455	$2598 00	$2511 58
Week ending May 7.....	146	781	248	$522 00	$465 97
" " " 14.....	175	773	298	522 00	501 99
" " " 21.....	183	698	301	540 00	483 99
" " " 28.....	159	569	222	540 00	484 00
	663	2,821	1,069	$2124 00	$1935 95
Week ending June 4.....	210	596	271	$540 00	$480 99
" " " 11.....	232	625	311	648 00	448 00
" " " 18.....	300	640	359	738 00	438 00
" " " 25.....	304	589	254	738 00	436 33
	1,046	2,450	1,195	$2664 00	$1803 32

*Mr. William A. Poist on March 26 succeeded as Superintendent George W. Hill, who had for two weeks temporarily succeeded Charles F. Marsh.

Amount expended for sweeping machines, sprinklers, and repairs.	Amount expended for tools, etc.	Number of garbage carts and men employed.	Number of street carts and men employed.	Number of scrapers and sweepers employed.	Total number of loads of all kinds removed.	Total amount expended.
.....	....	29	11	27	1605	$985 33
$3 96	.....	29	11	27	1600	990 95
.....	.....	29	11	27	1558	971 97
17 05	.....	29	11	27	1505	990 35
12 13	.....	29	11	27	1540	996 75
$33 14	.....	.....	.....		7808	$4935 35
.....	$2 40	29	11	27	1538	$957 42
.....	.....	29	11	27	1802	995 00
.....	.....	.....	12	22	491	†361 48
$19 06	18 20	29	11	27	1567	1000 21
....	.....	.....	10	5	124	†69 49
31 91	5 50	29	11	27	1575	1018 05
$50 97	$26 10	.....	.....	.....	7097	$4401 65
$33 23	$31 85	29	11	27	1584	$1047 57
40 84	13 60	29	11	27	1575	1044 44
32 06	.....	29	12	27	1486	1037 06
22 79	.....	29	12	27	1461	996 08
$128 92	$45 45	.....	.....	.....	6106	$4125 15
$33 99	.....	29	15	28	1605	$1105 98
28 73	$19 48	29	14	24	1583	1043 36
29 92	3 90	29	14	27	1549	1058 63
39 81	12 21	29	14	26	1433	1086 02
39 58	70	29	14	26	1237	1023 91
$172 03	$36 29	.....	.....	.....	7407	$5317 90
$42 36	$3 60	29	14	25	1175	$1033 93
38 68	5 00	29	14	25	1246	1067 67
36 72	.....	30	13	25	1182	1060 71
40 79	3 38	30	13	25	950	1068 17
$158 55	$11 98	.....	.....	.....	4553	$4230 48
$38 27	.....	30	13	25	1077	$1059 26
57 45	$13 60	36	11	25	1168	1167 05
69 53	.....	41	11	24	1299	1245 53
56 92	18 94	41	11	24	1147	1250 19
$222 17	$32 54	... .		.....	4691	$4722 03

†February 16 and 23 extra for cleaning off snow and ice.

DISTRICT No. 6.

WILLIAM A. POIST,

SUPERINTENDENT.

	Number of loads of garbage collect'd and removed.	Number of loads of ashes collected and removed.	Number of loads of street dirt, sand, snow, etc., collected and removed.	Cost of collecting and removing ashes and garbage.	Cost of collecting and removing street dirt, sand, snow, etc.
Week ending July 2	163	539	215	$756 00	$435 00
" " " 9	339	561	214	756 00	428 16
" " " 16	309	544	274	741 00	426 33
" " " 23	317	502	249	736 50	424 50
" " " 30	334	503	303	756 00	438 00
	1,462	2,649	1,255	$3745 50	$2151 99
Week ending August 6	393	496	203	$756 00	$438 00
" " " 13	429	470	214	744 00	434 83
" " " 20	461	484	144	751 50	438 00
" " " 27	499	435	179	756 00	434 66
	1,782	1,885	740	$3007 50	$1745 49
Week ending Sept. 3	397	358	188	$738 00	$434 66
" " " 10	450	441	202	738 00	429 99
" " " 17	425	468	298	738 00	435 00
" " " 24	330	514	327	738 00	435 00
	1,602	1,781	1,015	$2952 00	$1734 65
Week ending Oct. 1	298	544	238	$738 00	$433 33
" " " 8	289	589	258	738 00	438 00
" " " 15	270	601	230	720 00	436 33
" " " 22	219	685	215	718 50	383 94
" " " 29	233	776	230	738 00	436 33
	1,309	3,195	1,171	$3652 50	$2127 93
Week ending Nov. 5	245	851	270	$720 00	$438 00
" " " 12	223	917	255	732 00	391 11
" " " 19	226	1,041	252	756 00	398 09
" " " 26	176	1,078	211	630 00	373 92
	870	3,887	988	$2838 00	$1601 12
Week ending Dec. 3	161	1,463	316	$774 00	$449 66
" " " 10	141	1,372	252	774 00	453 83
" " " 17	122	1,369	290	774 00	436 66
" " " 24	119	1,242	238	774 00	422 92
" " " 31	100	1,474	260	.....	.....
	643	6,920	1,356	$3096 00	$1763 07

Amount expended for sweeping machines, sprinklers, and repairs.	Amount expended for tools, etc.	Number of garbage carts and men employed.	Number of street carts and men employed.	Number of scrapers and sweepers employed.	Total number of loads of all kinds removed.	Total amount expended.
$62 02	.....	41	11	24	917	$1253 02
68 25	.....	42	11	24	1114	1252 41
66 55	$13 80	41	11	24	1127	1247 68
49 00	.....	41	11	24	1068	1210 00
68 46	2 50	42	11	24	1140	1264 96
$314 28	$16 30	.....	.....	.....	5366	$6228 07
$52 08	.....	42	11	24	1092	$1246 08
36 84	.....	42	11	24	1113	1215 67
52 03	$12 40	42	11	24	1089	1253 93
58 32	.....	42	11	24	1113	1248 98
$199 27	$12 40	.....	.....	.....	4407	$4964 66
$58 51	.....	41	11	24	943	$1231 17
54 56	.....	41	11	24	1093	1222 55
66 85	$13 60	41	11	24	1191	1253 45
58 80	.....	41	11	24	1171	1231 80
$238 72	$13 60	.....	.....	.....	4398	$4938 97
$61 06	.....	41	11	24	1080	$1232 39
49 48	$2 00	41	11	24	1136	1227 48
57 48	.....	40	11	24	1101	1213 81
49 33	.....	41	11	24	1119	1151 77
59 58	.....	41	11	24	1239	1233 91
$276 93	$2 00	.....	.....	.....	5675	$6059 36
$42 85	$13 30	40	11	24	1366	$1214 15
43 37	.....	41	11	24	1395	1166 48
36 13	.....	42	12	24	1519	1190 22
25 21	.....	42	12	24	1465	1029 13
$147 56	$13 30	.....	.....	.....	5745	$4599 98
$42 49	$42 85	43	12	24	1940	$1309 00
32 58	.....	43	12	25	1765	1260 41
30 87	.....	43	13	25	1781	1241 53
24 38	24 60	43	12	25	1599	1245 90
.....	.....	43	12	26	1834	.....
$130 32	$67 45	.....	.....	.....	8919	$5056 84

ANNEX DISTRICT No. 7. OCTAVIUS DIX, SUPERINTENDENT.	Number of loads of garbage collect'd and removed.	Number of loads of ashes collected and removed.	Number of loads of street dirt, sand, snow, etc., collected and removed.	Cost of collecting and removing ashes and garbage.	Cost of collecting and removing street dirt, sand, snow, etc.
Week ending January 1...	88	462	261	$360 00	$256 00
" " " 8....	79	501	299	360 00	276 00
" " " 15...	79	503	139	360 00	204 83
" " " 22...	79	500	190	360 00	276 00
" " " 29...	80	497	136	360 00	260 16
	405	2,463	1,025	$1800 00	$1272 99
Week ending February 5..	80	497	293	$360 00	$249 66
" " " 12..	79	507	344	360 00	274 33
" " " 17..	....	....	230	.....	186 00
" " " 19..	79	507	198	360 00	225 50
" " " 26..	79	510	228	360 00	271 83
	317	2,021	1,293	$1440 00	$1207 32
Week ending March 5. ...	79	504	224	$360 00	$275 16
" " " 12*....	67	582	203	360 00	275 15
" " " 19.....	71	537	194	360 00	275 16
" " " 26.....	66	523	234	360 00	308 00
	283	2,146	855	$1440 00	$1133 47
Week ending April 2.....	78	488	227	$360 00	$309 83
" " " 9.....	64	499	183	360 00	296 00
" " " 16.....	72	491	228	354 00	314 00
" " " 23.....	96	421	216	357 00	314 00
" " " 30.....	96	435	170	360 00	264 49
	406	2,334	1,024	$1791 00	$1498 32
Week ending May 7.....	93	374	209	$360 00	$311 00
" " " 14.....	93	371	250	360 00	314 00
" " " 21.....	123	313	253	360 00	311 00
" " " 28.....	92	302	243	360 00	332 00
	401	1,360	955	$1440 00	$1268 00
Week ending June 4.....	142	318	315	$360 00	$332 00
" " " 11.....	184	286	296	360 00	360 00
" " " 18.....	206	220	263	360 00	358 33
" " " 25.....	203	221	238	360 00	360 00
	735	1,045	1,112	$1440 00	$1410 33

*Mr. Octavius Dix succeeded Alexander Harrison as Superintendent, March 12.

Amount expended for sweeping machines, sprinklers, and repairs.	Amount expended for tools, etc.	Number of garbage carts and men employed.	Number of street carts and men employed.	Number of scrapers and sweepers employed.	Total number of loads of all kinds removed.	Total amount expended.
.....	$1 20	20	7	15	811	$617 20
$9 96	.....	20	7	15	879	645 96
.....	.....	20	7	15	721	564 83
14 30	.....	20	7	15	769	650 30
13 63	5 00	20	7	15	713	638 79
$37 89	$6 20	.....	.....	.....	3893	$3117 08
.....	$3 00	20	7	15	870	$612 66
.....	.....	20	7	15	930	634 33
.....	.....	.....	6	12	230	†186 00
$14 56	.....	20	7	15	784	600 06
46 41	10 00	20	7	15	817	688 24
$60 97	$13 00	.....	.....	.....	3631	$2721 29
$36 73	.....	20	7	15	807	$671 89
44 34	.....	20	7	15	852	679 49
37 31	.....	20	7	15	802	672 47
31 54	$10 86	20	8	17	823	710 40
$149 92	$10 86	.....	.....	.....	3284	$2734 25
$33 99	.....	20	8	17	793	$703 82
28 73	$8 02	20	8	17	746	692 75
29 92	31 25	20	8	17	791	729 17
39 81	.....	20	8	17	733	710 81
39 58	.....	20	8	17	701	664 07
$172 03	$39 27	.....	.....	.....	3764	$3500 62
$42 36	.....	20	8	17	676	$713 36
38 68	$8 18	20	8	17	714	720 86
36 72	3 74	20	8	17	689	711 46
40 79	50	20	9	17	637	733 29
$158 55	$12 42	.....	.....	.....	2716	$2878 97
$38 27	.....	20	9	17	775	$730 27
57 45	.....	20	10	18	766	777 45
69 53	$13 60	20	10	18	689	801 46
56 92	.....	20	10	18	662	776 92
$222 17	$13 60	.....	.....	.....	2892	$3086 10

†February, 17 extra for cleaning off snow and ice.

ANNEX DISTRICT No. 7. OCTAVIUS DIX, Superintendent.	Number of loads of garbage collected and removed.	Number of loads of ashes collected and removed.	Number of loads of street dirt, sand, snow, etc., collected and removed.	Cost of collecting and removing ashes and garbage.	Cost of collecting and removing street dirt, sand, snow, etc.
Week ending July 2	174	236	210	$ 360 00	$360 00
" " " 9	173	216	202	360 00	348 67
" " " 16	189	223	231	360 00	351 66
" " " 23	193	225	262	378 00	357 66
" " " 30	198	233	237	378 00	360 00
	927	1133	1142	$1836 00	$1777 99
Week ending August 6	204	231	186	$378 00	$378 00
" " " 13	210	211	250	378 00	394 33
" " " 20	252	207	179	372 00	388 00
" " " 27	263	171	161	360 00	388 00
	929	820	776	$1488 00	$1548 33
Week ending Sept. 3	289	154	255	$378 00	$394 33
" " " 10	303	164	219	378 00	378 00
" " " 17	264	181	208	378 00	378 00
" " " 24	271	194	234	378 00	378 00
	1127	693	916	$1512 00	$1528 33
Week ending Oct. 1	240	227	231	$378 00	$378 00
" " " 8	259	263	281	378 00	378 00
" " " 15	174	262	228	378 00	374 66
" " " 22	152	324	220	396 00	329 00
" " " 29	130	375	224	396 00	373 50
	955	1451	1184	$1926 00	$1833 16
Week ending Nov. 5	116	459	272	$393 00	$375 00
" " " 12	123	437	245	396 00	368 33
" " " 19	106	496	211	324 00	370 00
" " " 26	109	586	210	270 00	308 33
	454	1978	938	$1383 00	$1421 66
Week ending Dec. 3	93	629	275	$324 00	$370 00
" " " 10	64	618	290	288 00	370 00
" " " 17	60	599	354	288 00	370 00
" " " 24	70	622	308	288 00	378 33
" " " 31	85	671	303	.....	.....
	372	3139	1530	$1188 00	$1488 33

Amount expended for sweeping machines, sprinklers, and repairs.	Amount expended for tools, etc.	Number of garbage carts and men employed.	Number of street carts and men employed.	Number of scrapers and sweepers employed.	Total number of loads of all kinds removed.	Total amount expended.
$62 02	.....	20	10	18	620	$782 02
68 25	.....	20	10	18	591	776 92
66 55	.....	20	10	18	643	778 21
49 00	.....	21	10	18	680	784 66
68 46	$12 85	21	10	18	668	819 31
$314 28	$12 85	.....			3202	$3941 12
$52 08	.....	21	11	18	621	$808 08
36 84	.....	21	12	18	671	809 17
52 03	$ 30	21	12	18	638	812 33
58 32	5 90	20	12	18	595	812 22
$199 27	$6 20	.....			2525	$3241 80
$58 51	.....	21	12	18	698	$830 84
54 56	.....	21	12	18	686	810 56
66 85	.....	21	11	18	653	822 85
58 80	.....	21	11	18	699	814 80
$238 72	.....	.....			2736	$3279 05
$61 06	.....	21	11	18	698	$817 06
49 48	.....	21	11	18	803	805 48
57 48	$9 90	21	11	18	664	820 04
49 33	.....	22	11	18	696	774 33
59 58	.....	22	11	18	729	829 08
$276 93	$9 90	.....			3590	$4045 99
$42 85	.....	22	11	18	847	$810 85
43 37	.....	22	10	19	805	807 70
36 13	.....	18	10	19	813	730 13
25 21	$31 35	18	10	19	905	634 89
$147 56	$31 35	.....	.....		3370	$2983 57
$42 49	$1 50	18	10	19	997	$737 99
32 58	.....	16	10	19	972	690 58
30 87	8 50	16	10	19	1013	697 37
24 38	.....	16	10	20	1000	690 71
.....	.....	16	10	20	1059	.....
$130 32	$10 00	.....			5041	$2816 65

DISTRICT No. 8. THOS. B. SWEETING, SUPERINTENDENT.	Number of loads of garbage collect'd and removed.	Number of loads of ashes collected and removed.	Number of loads of street dirt, sand, snow, etc., collected and removed.	Cost of collecting and removing ashes and garbage.	Cost of collecting and removing street dirt, sand, snow, etc.
Week ending January 1...	46	1,020	524	$504 00	$324 00
" " " 8...	47	1,048	503	504 00	322 33
" " " 15...	47	1,076	309	504 00	321 00
" " " 22...	62	992	300	504 00	324 00
" " " 29...	70	1,076	311	504 00	324 00
	272	5,212	1,947	$2520 00	$1615 33
Week ending February 5..	41	1,104	396	$504 00	$324 00
" " " 12..	61	1,132	638	504 00	319 83
" " " 16..	.....	.....	486	.....	242 48
" " " 19..	40	1,076	616	504 00	319 00
" " " 19..	.....	.....	70	.....	35 50
" " " 26..	59	1,132	534	504 00	324 00
	201	4,444	2,740	$2016 00	$1564 81
Week ending March 5	58	1,104	332	$504 00	$324 00
" " " 12*....	61	1,132	464	504 00	324 00
" " " 19	74	1,160	584	504 00	324 00
" " " 26	64	864	227	501 00	313 00
	257	4,260	1,607	$2013 00	$1285 00
Week ending April 2.....	98	803	283	$504 00	$324 00
" " " 9.....	82	842	270	504 00	334 00
" " " 16.....	96	712	264	504 00	334 00
" " " 23.....	139	520	227	456 00	324 00
" " " 30.....	125	472	218	480 00	314 00
	540	3,349	1,262	$2448 00	$1630 00
Week ending May 7.....	154	478	267	$468 00	$324 00
" " " 14.....	166	452	230	468 00	314 00
" " " 21.....	202	370	236	468 00	334 00
" " " 28.....	210	296	196	468 00	343 00
	732	1,596	929	$1872 00	$1315 00
Week ending June 4.....	239	298	332	$468 00	$352 00
" " " 11.....	235	246	261	465 00	342 00
" " " 18.....	267	211	264	450 00	342 00
" " " 25.....	242	222	252	450 00	342 00
	983	977	1,109	$1833 00	$1378 00

*Mr. Thomas B. Sweeting succeeded William G. Harryman as Superintendent March 12.

Amount expended for sweeping machines, sprinklers, and repairs.	Amount expended for tools, etc.	Number of garbage carts and men employed.	Number of street carts and men employed.	Number of scrapers and sweepers employed.	Total number of loads of all kinds removed.	Total amount expended.
.....	.....	28	8	18	1,590	$828 00
$10 96	.....	28	8	18	1,598	837 29
.....	$11 80	28	8	18	1,432	836 80
25 55	.....	28	8	18	1,354	853 55
23 38	7 30	28	8	18	1,457	858 68
$59 89	$19 10	.....	.....	.....	7,431	$4214 32
.....	$16 80	28	8	18	1,541	$844 80
.....	.....	28	8	18	1,831	823 83
.....	.....	.....	7	13	486	†242 48
$22 06	.....	28	8	18	1,732	845 06
.....	.....	.....	3	2	70	†35 50
53 91	10 60	28	8	18	1,725	892 51
$75 97	$27 40	.....	.....	.....	7,385	$3684 18
$37 23	.....	28	8	18	1,494	$865 23
52 84	$10 20	28	8	18	1,657	891 04
44 31	.....	28	8	18	1,818	872 31
30 79	10 70	28	8	18	1,155	855 49
$165 17	$20 90	.....	.....	.....	6,124	$3484 07
$33 99	.....	28	8	18	1,184	$861 99
28 73	.....	28	8	19	1,194	866 73
29 92	$10 80	28	8	19	1,072	878 72
39 81	.....	26	8	18	886	819 81
39 58	.....	26	8	17	815	833 58
$172 03	$10 80	.....	.....	.....	5,151	$4260 83
$42 36	$6 80	26	8	18	899	$841 16
38 68	6 88	26	8	17	848	827 56
36 72	.....	26	8	19	808	838 72
40 79	29 65	26	9	19	702	881 44
$158 55	$43 33	.....	.....	.....	3,257	$3388 88
$38 27	.....	26	9	19	869	$858 27
57 45	.....	26	9	18	742	864 45
69 53	$8 30	25	9	18	742	869 83
56 92	.....	25	9	18	716	848 92
$222 17	$8 30	.....	.....	.....	3,069	$3441 47

†February 16 and 19, extra for cleaning off snow and ice.

DISTRICT No. 8. THOS. B. SWEETING, SUPERINTENDENT.	Number of loads of garbage collect'd and removed.	Number of loads of ashes collected and removed.	Number of loads of street dirt, sand, snow, etc., collected and removed.	Cost of collecting and removing ashes and garbage.	Cost of collecting and removing street dirt, sand, snow, etc.
Week ending July 2	251	185	231	$450 00	$342 00
" " " 9	241	182	200	450 00	342 00
" " " 16	230	165	246	450 00	342 00
" " " 23	250	162	254	450 00	335 34
" " " 30	269	169	253	450 00	337 00
	1,241	863	1,184	$2250 00	$1698 34
Week ending August 6	292	152	261	$450 00	$332 00
" " " 13	325	149	243	450 00	310 34
" " " 20	363	153	241	447 00	342 00
" " " 27	428	154	250	441 00	342 00
	1,408	608	995	$1788 00	$1356 34
Week ending Sept. 3	439	165	263	$450 00	$342 00
" " " 10	419	148	259	450 00	342 00
" " " 17	355	162	256	450 00	342 00
" " " 24	348	165	257	450 00	342 00
	1,561	640	1,035	$1800 00	$1368 00
Week ending Oct. 1	304	157	256	$450 00	$342 00
" " " 8	287	166	270	450 00	342 00
" " " 15	248	187	282	444 00	341 16
" " " 22	258	229	244	450 00	301 08
" " " 29	209	323	259	450 00	342 00
	1,306	1,062	1,311	$2244 00	$1668 24
Week ending Nov. 5	246	412	274	$450 00	$342 00
" " " 12	154	448	240	450 00	310 40
" " " 19	157	591	278	468 00	342 00
" " " 26	132	496	219	381 00	285 00
	689	1,947	1,011	$1749 00	$1279 40
Week ending Dec. 3	144	590	259	$450 00	$342 00
" " " 10	142	645	282	447 00	342 00
" " " 17	135	715	289	450 00	339 00
" " " 24	149	894	169	450 00	298 00
" " " 31	161	860	148	.....	.....
	731	3,704	1,147	$1797 00	$1321 00

Amount expended for sweeping machines, sprinklers, and repairs.	Amount expended for tools, etc.	Number of garbage carts and men employed.	Number of street carts and men employed.	Number of scrapers and sweepers employed.	Total number of loads of all kinds removed.	Total amount expended.
$62 02	$20 00	25	9	18	667	$874 02
68 25	10	25	9	18	623	860 35
66 55	.....	25	9	18	611	858 55
49 00	.....	25	9	18	666	834 24
68 46	.....	25	9	18	691	855 46
$311 28	$20 10	.....	.....	.....	5288	$4282 72
$52 08	.....	25	9	17	705	$834 08
36 84	.....	25	9	18	717	827 18
52 03	.....	25	9	18	757	841 03
58 32	$7 10	25	9	18	832	848 42
$199 27	$7 10	.....	.....	.....	3011	$3350 71
$58 51	.....	25	9	18	867	$850 51
54 56	.....	25	9	18	826	846 56
66 85	$11 30	25	9	18	773	873 15
58 80	.....	25	9	18	770	850 80
$238 72	$14 30	.....	.....	.....	3236	$3421 02
$61 06	.....	25	9	18	717	$853 06
49 48	.....	25	9	18	723	841 48
57 18	.....	25	9	18	717	842 64
49 33	.....	25	9	18	731	800 11
59 58	$17 85	25	9	18	791	869 43
$276 93	$17 85	.....	.....	.....	3679	$4207 02
$42 85	$6 57	25	9	18	932	$841 42
43 37	.....	25	9	18	842	803 77
36 13	10 20	26	9	18	1026	856 33
25 21	.....	26	9	18	847	691 21
$147 56	$16 77	.....	.....	.....	3647	$3192 73
$42 49	$5 80	25	9	18	993	$840 29
32 58	.....	26	9	18	1069	821 58
30 87	.....	25	9	18	1139	819 87
24 38	.....	25	9	18	1212	772 38
.....	.....	25	9	18	1169	.....
$130 32	$5 80	.....	.....	.....	5582	$3254 12

TABLE B.

SHOWING THE WORK DONE AND THE RUNNING EXPENSES
DECEMBER

DISTRICTS.	Number of loads of garbage removed.	Number of loads of ashes removed.	Number of loads of street dirt, sand, ice and snow removed.	Total number of loads of all kinds removed.	Cost for removal of garbage and ashes.
First	11,467	14,632	17,078	43,177	$19,596 00
Second	1,516	2,536	9,621	13,673	2,883 00
Third	4,181	18,123	24,933	47,237	16,261 50
Fourth	11,126	25,752	24,555	61,433	25,191 00
Fifth	4,930	21,299	14,029	40,258	18,726 00
Sixth	10,644	44,068	17,460	72,172	33,463 50
Seventh	7,311	20,583	12,750	40,644	18,684 00
Eighth	9,921	28,662	16,277	54,860	24,330 00
	61,096	175,655	136,703	373,454	$159,135 00*

*From this amount must be deducted the sum of $12, wages of Harris Vogle, which was returned to the Comptroller, Vogle having left the city.

TABLE B.

OF EACH SEPARATE DISTRICT FROM JANUARY 1ST, 1898, TO 31ST, 1898.

Cost for removal of street dirt, sand, ice, snow, etc.	Cost for sweeping machines and sprinklers.	Cost for tools and repairs.	Number garbage carts employed.	Number street carts employed.	Number sweepers and scrapers employed.	Total amount of expenditures for the year.
$24,979 70	$2,166 68	$178 54	21	10	30	$46,920 92
16,242 85	2,151 11	186 59	6	8	18	21,463 55
33,580 28	4,578 88	546 60	19	19	31	54,967 26
25,487 31	2,079 11	327 62	28	13	25	53,085 04
20,426 84	2,141 11	246 44	13	8	24	41,540 39
23,766 67	2,072 86	277 41	43	12	26	59,580 44
17,388 23	2,108 61	165 65	16	10	20	38,346 49
17,479 46	2,160 86	211 75	25	9	18	41,182 07
$179,351 34	$19,459 22	$2,140 60	171	89	192	$360,086 16*

*From this amount must be deducted the sum of $12, wages of Harris Vogle, which was returned to the Comptroller, Vogle having left the city.

TABLE C.

Report of the Work Done, Including all Expenditures, in the Street Cleaning Department, for each month of the Year Ending December 31, 1898, also Amount of Receipts from the Sales of Refuse, etc.

1898.	Total Number of Loads of Garbage Removed.	Total Number of Loads of Ashes Removed.	Total Number of Loads of Street Dirt, Sand, Ice, Snow, etc., Removed.	Cost of Collecting and Removing Garbage.	Cost of Collecting and Removing Street Dirt, Sand, Ice, Snow, etc.	Expended for Dumps.	Contingent Fund.
January	2,570	25,934	13,526	$15,300 00	$16,784 77	$197 00	$70 26
February	1,952	21,000	16,662	12,234 00	15,946 21	197 00	18 00
March	2,110	19,813	10,865	12,213 00	13,648 65	197 00	18 10
April	3,866	19,398	12,165	15,264 00	17,060 46	197 00	22 56
May	1,129	11,535	9,328	12,276 00	13,660 71	202 88	27 90
June	6,141	8,398	10,167	12,363 00	13,835 13	197 00	11 10
July	7,755	8,475	11,693	15,427 50	17,219 17	197 65	28 36
August	8,253	6,274	9,331	12,259 50	13,806 85	197 00	21 70
September	8,258	6,119	9,873	12,288 00	13,914 90	197 00	39 15
October	7,281	10,541	11,598	15,450 00	17,006 90	197 28	32 56
November	4,132	13,992	9,110	11,823 00	12,978 56	197 00	38 80
December	1,019	24,176	12,085	12,237 00	13,479 03	197 00	17 80
Totals	61,096	175,655	136,703	$159,135 00	$179,351 31	$2,370 81	$436 89

*From this amount must be deducted the sum of $12, wages of Harris Vogle, which was returned to the Comptroller, Vogle having left the city.

TABLE C.—Concluded.

1898.	Cost of Sweeping Machines, Sprinklers, Repairs, etc.	Salaries.	Cost of Tools, Repairs, etc.	Paid to the Contractor for the Removal of Garbage.	Number of Men and Carts Employed.			Total Number of Loads of all Kinds Removed.	Total Amount of all the Expenditures.	Total Amounts of Monies Received and Paid to the Comptroller.
					Garbage Carts.	Street Carts.	Sweepers and Scrapers.			
January	$924 98	$833 30	$349 37		170	86	187	12,030	$31,159 68	$31 60
February	956 12	833 30	359 28	$1,225 00	170	86	188	39,611	31,778 92	32 40
March	1,591 19	1,008 06	173 57		170	89	191	32,818	28,849 57	88 70
April	1,772 90	720 46	272 49		170	89	190	35,429	35,309 87	300 35
May	1,883 13	916 63	156 50	1,225 00	171	89	189	25,292	30,348 75	141 85
June	2,793 54	1,016 74	170 14		172	78	187	24,706	30,416 95	78 25
July	2,591 25	916 63	201 21		172	89	188	27,923	36,581 77	29 50
August	2,359 70	916 79	139 10	1,225 00	171	90	188	23,858	30,955 57	20 00
September	2,562 29	916 64	111 64		171	90	189	24,250	30,029 92	10 00
October	2,297 94	916 64	77 48		173	89	190	29,420	35,978 80	205 55
November	190 74[1]	916 74	125 52	1,225 00	172	89	190	27,834	27,495 36	15 75
December	1,695 07	916 63	162 72		172	90	192	10,280	28,735 25	329 70
	$21,618 85	$10,828 49	$2,299 02	$4,900 00				373,151	$380,940 40	$1,313 65

[1]From this amount must be deducted the sum of $12, wages of Harris Vogle, which was returned to the Comptroller, Vogle having left the city.

TABLE D.

Financial Statement of the Street Cleaning Department Appropriation from Jan. 1, 1898, to Dec. 31, 1898.

	Amounts of Appropriations.	Revenue from the Sale of Refuse, etc.	Expenditures for the Twelve Months Ending December 31, 1898.	Credit Balances December 31, 1898.
Garbage carts and men	$141,336 00		$140,439 00	$897 00
Street carts and men	74,880 00		73,566 00	1,314 00
Sweepers and scrapers	88,400 00		88,397 11	2 89
Salaries	10,000 00		9,828 49	171 51
Sweeping machines, sprinklers, hire of horses, etc.	21,620 09		21,618 85	1 24
Dumps	2,500 00		2,370 81	129 19
Contingent Fund	500 00		436 89	63 11
Tools, repairs, etc.	2,500 00		2,237 91	262 09
Contract for removal of garbage	4,900 00		4,900 00	
Garbage carts and men, Annex	18,720 00		18,684 00	36 00
Street carts and men, Annex	8,520 00		8,520 00	
Sweepers and scrapers, Annex	9,619 91		8,868 23	751 68
Salary of Superintendent, Annex	1,000 00		1,000 00	
Tools, Annex	150 00		61 11	88 89
Sale of refuse, etc.		$1,313 65		1,313 65
Total	$384,646 00	$1,313 65	$380,928 40	$5,031 25

Total amount of appropriation for the year 1898	$384,646 00
Total amount of appropriation expended during 1898	380,928 40
Unexpended balance	$3,717 60
Revenue from sale of refuse, etc.	1,313 65
Total amount transferred to city treasury	$5,031 25

By a resolution of the City Council $840.00 were deducted from the original Annex Street Cart Appropriation and $780.09 from the original Annex Sweeper and Scraper Appropriation, and transferred to the original Appropriation for Sweeping Machines, Sprinklers, etc.

TABLE E.

Recapitulation.

Total number of loads of garbage collected and removed from January 1 to December 31, 1898	61,096	
Total number of loads of ashes collected and removed from January 1 to December 31, 1898	175,655	
Total number of loads of street dirt, sand, ice and snow removed from January 1 to December 31, 1898	136,703	
Total number of loads of all kinds collected and removed from January 1 to December 31, 1898	373,454	
Total amount paid for collecting and removing garbage and ashes from January 1 to December 31, 1898		$159,123 00
Total amount paid for collecting and removing street dirt, sand, snow, etc., from January 1 to December 31, 1898		179,351 34
Total amounts paid for Dumps Nos. 1, 2 and 3 from January 1 to December 31, 1898		2,370 81
Total amount paid for Contingent Fund from January 1 to December 31, 1898		436 89
Total amount paid for salaries from January 1 to December 31, 1898		10,828 49
Total amount paid for sweeping machines, sprinklers, hire of horses, etc., from January 1 to December 31, 1898		21,618 85
Total amount paid for tools, repairs, etc., from January 1 to December 31, 1898		2,299 02
Total amount paid to contractor for the removal of garbage on scows from the various dumps during the year.		4,900 00
Total amount paid out during the year from January 1 to December 31, 1898		$380,928 40
Total amount of money received from the sale of refuse, etc., during the year		$1,313 65
Total number of garbage cart drivers in the employ of this department	171	
Total number of street cart drivers in the employ of this department	89	
Total number of street sweepers and scrapers in the employ of this department	190	
Total number of carters, sweepers and scrapers	450	

TABLE F.

Showing Disbursements for the Year Ending December 31, 1898, Not Including City Annex.

Total amount expended for collecting and removing garbage and ashes from January 1 to December 31, 1898	$140,439 00
Total amount expended for street carts and men from January 1 to December 31, 1898	73,566 00
Total amount expended for sweepers and scrapers from January 1 to December 31, 1898	88,397 11
Total amount expended for salaries from January 1 to December 31, 1898	9,828 49
Total amount expended for sweeping machines, sprinklers, etc., from January 1 to December 31, 1898	21,618 85
Total amount expended for dumps from January 1 to December 31, 1898	2,370 81
Total amount expended for Contingent Fund from January 1 to December 31, 1898	436 89
Total amount expended for tools, repairs, etc., from January 1 to December 31, 1898	2,237 91
Total amount expended for removal of garbage by scows as per contract from January 1 to December 31, 1898	4,900 00
Total	$343,795 06
Amount of appropriation for the year 1898	$345,016 00
Amount of appropriation expended from January 1 to December 31, 1898	343,795 06
Total unexpended balance	$1,220 94

TABLE G.

Showing Disbursements in the City Annex for the Year Ending December 31, 1898.

Total amount expended for collecting and removing garbage and ashes from January 1 to December 31, 1898...	$18,684 00
Total amount expended for street carts and men from January 1 to December 31, 1898.....	8,520 00
Total amount expended for sweepers and scrapers from January 1 to December 31, 1898.....	8,868 23
Total amount expended for salary of Superintendent from January 1 to December 31, 1898.....	1,000 00
Total amount expended for tools from January 1 to December 31, 1898.....	61 11
Total.....	$37,133 34
Total amount of appropriation for the City Annex for the year 1898.....	$39,630 00
Total amount of appropriation expended from January 1 to December 31, 1898	37,133 34
Total unexpended balance	$2,496 66

TABLE H.

Showing the amount of Animal and Vegetable Garbage delivered to Contractor at Dumps Nos. 1, 2 and 3.

1898. Months.	Dump No. 1, Caroline Street.	Number of Loads.	Dumps Nos. 2 and 3, Winan's Cove and Ranstead's Wharf.	Number of Loads.	Totals.
January	Geo. F. Allen, Superintendent	1,219	Wm. G. Hoffman, Superintendent	1,118	2,337
February	" " "	892	" " "	822	1,714
March	" " "	1,013	" " "	1,070	2,083
April	" " "	1,731	" " "	2,597	4,328
May	" " "	1,972	" " "	2,680	4,652
June	" " "	2,543	" " "	3,522	6,065
July	" " "	3,125	" " "	4,314	7,439
August	" " "	3,169	" " "	4,611	7,780
September	" " "	3,036	" " "	4,297	7,333
October	" " "	2,818	" " "	3,729	6,547
November	" " "	1,900	" " "	2,273	4,173
December	" " "	1,931	" " "	1,787	3,718
Total		25,349		32,820	58,169

TABLE I.

Number of Dead Animals, etc., removed in the Eastern and Western Districts from January 1 to December 31, 1898.

	Eastern District.	Western District.	Totals.
Dogs	1,983	1,459	3,442
Cats	4,580	4,674	9,254
Rats	558	764	1,322
Fowls	322	640	962
Goats	21	17	38
Sheep	6	8	14
Rabbits	17	11	28
Hogs		3	3
Monkeys	1		1
Opossums	2	3	5
Foxes	1	2	3
Crabs	875	1,007	1,882
Decayed Meat (pounds)	105	251	356
Dead Fish (pounds)	264	391	655

Total number of dead animals removed.....14,110
Total number of dead fowls removed.....962
Total number of dead crabs removed.....1,882
Total number of pounds of decayed meat removed.....356
Total number of pounds of dead fish removed.....655

ANNUAL REPORT

—— OF THE ——

HEALTH DEPARTMENT

—— TO THE ——

Mayor and City Council of Baltimore,

—— FOR THE ——

FISCAL YEAR ENDING DECEMBER 31st, 1898.

OFFICERS AND EMPLOYES OF THE BOARD OF HEALTH

——OF THE——

CITY AND PORT OF BALTIMORE FOR THE YEAR ENDING DECEMBER 31, 1898.

HON. WM. T. MALSTER, MAYOR,
Member Ex-officio.

C. HAMPSON JONES, M.D.,
President, Commissioner of Health, and Registrar.

JOHN TYLER SMITH, M.D.,
Assistant Commissioner of Health.

ALBERT K. HADEL, M.D.,
Secretary of Board of Health.

ARTHUR D. THOMPSON,
Assistant Secretary of Board of Health.

JNO. RUHRÄH, M.D.,
Resident Physician of the Quarantine Hospital of the Port of Baltimore.

MELVIN ROSENTHAL, M.D.,
Assistant Physician of the Quarantine Hospital of the Port of Baltimore.

JOS. C. MITCHELL, *Inspector of Plumbing.*

GEO. W. PILSON, *Inspector of Drains.*

THOS. E. WILLIAMS, *Permit Clerk.*

EVERETT Y. SORDEN, *Nuisance Clerk.*

WM. C. RATH, *Registrar's Clerk.*

HARRY F. PRICHARD, *Recorder of Births.*

J. R. WETHERILL, *Ass't Permit and Ass't Registrar's Clerk.*

SANITARY INSPECTORS.

J. F. HEMPEL, M.D.,
C. M. DODSON, M.D.,
D. J. REINHART, M.D.,
T. T. DAWSON,
S. T. MOWERS, M.D.,
H. H. HAYDEN, M.D.

JOHN C. EICHNER, *Inspector of Cow Stables.*

GEO. W. LEHMANN, PH.D., *Chemist.*

WM. ROYAL STOKES, M.D., *Bacteriologist.*

FRANK L. TUTTLE AND THOS. J. BORAM, *Inspectors of Milk.*

T. EUGENE CARMICHAEL, *Inspector of Meat, Vegetables, Fruit, etc.*

FRED'K GREINEISEN, *Inspector of Bakeries.*

NICHOLAS G. KIERLE, M.D., *Medical Examiner.*

ALBERTUS COTTON, M.D., *Assistant Medical Examiner.*

E. M. STEVENSON, *Superintendent of Public Cemeteries.*

JNO. DECKER AND HENRY C. BRANNING,
Drivers of Funeral Wagons.

WM. H. HACKMAN, *Keeper of the Morgue.*

THOS. H. WILEY, *Detective.*

ALBERT E. MUSHAKE, *Messenger.*

GEO. W. PARLETT AND CHAS. E. AMES, *Disinfectors.*

CHARLES STEINWEDEL, *Watchman of Dumps.*

SAM'L H. OLER, *Maker of Disinfectant.*

CITY ANNEX—SANITARY INSPECTORS.

Twenty-first Ward.
LOUIS F. FREY, M.D.,
LOUIS F. GUNDRY, M.D.

Twenty-second Ward.
GEO. H. EVERHART, M.D.,
JOHN E. RITTENHOUSE.

VACCINE PHYSICIANS.

First Ward:
CHAS. S. NEER, 619 S. Patterson Park avenue.

Second Ward:
GUSTAVE GOLDMAN, M.D., 2005 Eastern avenue.

Third Ward:
CHAS. F. BLAKE, M.D., 1503 E. Baltimore street.

Fourth Ward:
MOSES SAVAGE, M.D., 6 S. Exeter street.

Fifth Ward:
H. M. COHEN, M.D., 407 Aisquith street.

Sixth Ward:
SAM'L T. ROEDER, M.D., 1904 E. Fayette street.

Seventh Ward:
GEO. W. MITCHELL, M.D., 913 N. Broadway.

Eighth Ward:
HENRY G. BECK, M.D., 829 E. Chase street.

Ninth Ward:
CHAS. W. HARTWIG, M.D., 111 W. Saratoga street.

Tenth Ward:
ROBT. J. MURRAY, M.D., 302 N. Fremont street.

Eleventh Ward:
E. LAMBERT YOUREX, M.D., 1138 Druid Hill avenue.

Twelfth Ward:
E. C. BUBERT, M.D., 2025 Druid Hill avenue.

Thirteenth Ward:
CHAS. W. McELFRESH, M.D., 834 W. Lombard street.

Fourteenth Ward:
JNO. G. JEFFERS, M.D., 1143 W. Franklin street.

Fifteenth Ward:
CHAS. F. PFEIFFER, M.D., 48 E. Montgomery street.

Sixteenth Ward:
C. LUNSFORD NUCKOLS, M.D., 519 S. Paca street.

Seventeenth Ward:
C. P. STRAUSS, M.D., 1606 Light street.

Eighteenth Ward:
HARRY E. KNIPP, M.D., 523 Scott street.

Nineteenth Ward:
C. C. RICHARDSON, M.D., 1616 Edmondson avenue.

Twentieth Ward:
GEO. C. SHANNON, M.D., 1442 Presstman street.

Twenty-first Ward:
J. BURCH JOYCE, M.D., 2526 W. Baltimore street.

Twenty-second Ward:
W. S. CARSWELL, M.D., N. E. Cor. Charles street and Huntingdon avenue.

REPORT

—OF THE—

COMMISSIONER OF HEALTH.

REPORT.

HEALTH DEPARTMENT—CITY HALL ANNEX,

BALTIMORE, January 1, 1899.

To the Honorable the Mayor and City Council of Baltimore:

GENTLEMEN: In accordance with the requirements of law, I submit herewith the report of the operations of the Health Department for the year ending December 31, 1898.

A careful perusal of this report will show a considerable increase in the amount of work done over previous years, which has been due to the excellence of the subordinate officers of this department. It has given me great pleasure during the year to find that it was but seldom that I had to call the attention of any one to an apparent neglect of duty. In some cases any complaint arising from the non-abatement of nuisances after the proper persons had been notified, was due to the great amount of work each officer of the department had to do, and to the fact that there were not enough officers to have one or more especially detailed to follow up the notices that had been given to the citizens.

The general health of the city, on the whole, is fair. After consultation with gentlemen who are well informed as to the population of Baltimore, we have changed the basis of our death-rate calculation from 506,398 to 541,000. On this basis you will find that the death rate is 19.19—when we accept all of the deaths that occurred within the city limits, but when the deaths in our hospitals of persons who were non-residents are removed from the list, the death rate falls to 18.65. Obviously this is a fair deduction, and presents the health of our city in a better light. While we have not adopted any other change in this matter this year, yet after a careful perusal of the death lists, I have deter-

mined that during the year 1899 there shall be a separate account of the deaths of the young children in the homes and asylums for newly-born children, for the reason that they do not constitute a part of our population, inasmuch as they are not counted with the population, and the large death rate among such children places in a false light the death rate of the city. Considering the very few improvements to protect the health of the city, the death rate is small.

ISOLATION HOSPITAL.

Once more we remind you of the necessity for an isolation hospital for diphtheria and scarlet fever. So much has been said regarding this necessity that I need not take your time in presenting arguments for it, but merely caution you not to build anything but the finest of its kind in the point of being effective in its work, viz.: the cure of such cases and the protection of the public. During 1898 the need was particularly manifest. The poor of this city, who were not able to isolate their sick ones, suffered greatly by the spread of the disease amongst them, and by taking away means of support for the time being, due to the fact that parents could not attend to their usual vocations. In connection with this we again urge the establishment of a

DISINFECTION PLANT.

The vacuum steam sterilizer is now looked upon as one of the necessities of a well-equipped health department. We recognize that infectious diseases are due to germs or living organisms, which can be destroyed by one process or another, and when destroyed are, of course, powerless to do harm. The more germs that are destroyed the less likely are diseases to develop. When the bed clothing, personal clothing, carpets, curtains, etc., become infected with these germs, they will most certainly develop the same diseases in persons who are susceptible to them, and after every case of sickness of an infectious character everything with which the patient comes in contact, directly or indirectly, should be burned or sterilized. The poor cannot do this, and undoubtedly it is one of the reasons why the infectious diseases are particularly prevalent amongst this class of people.

DIPHTHERIA AND CROUP.

In our tables you will find that we have considered these two diseases as one, because it is now considered that they are due to the same germ, but located in different places in the air passages. I was convinced by our experience in 1897 that the probability of a diphtheria epidemic in 1898 was great. Our force was first organized about May 1, 1898, and in July we arranged a system to fight the expected diphtheria This system consisted in putting into effect Section 175, Article 23, Code of 1893, which says: "When such disease is found to exist the Commissioner of Health shall use all possible care to prevent the spreading of the infection, and to give public notice of infected places by displaying a yellow flag on the premises where said infectious disease exists, and by all other means which, in his judgment, shall be most effectual for the common safety," etc., and we adopted a yellow card, which was to be placed in some convenient spot where the public about to enter could see it, and be warned that disease existed there, and cautioned them not to enter. This card was put up by our inspectors on the day that we received notice from the physician that disease existed in the house, and it was to remain there until the physician reported that the patients had recovered, or died, and the house disinfected. The disinfection, however, was not ordered until our throat inspector had made a proper examination of all throats of the inmates and the cultures found negative. With your permission I appointed Dr. Charles B. Canby to do this work, and his report is included in that of the bacteriological department. Another precautionary measure was the strict carrying out of the regulations established in 1897, which required all children attending public schools to obtain a certificate of recovery from this department before the principal of the school would permit them to return. The department made this rule because it was specially important that the throats should be examined and the house disinfected before returning to school. In addition to this notices were sent to the principals of all the schools semi-weekly, each notice containing the names and addresses of the children sick of dyphtheria or scarlet fever, with special instruc-

tions to the principal that the children must be armed with our certificates before permitting them to return. My predecessor had already established the giving of anti-toxin for the treatment of diphtheria to those people who could not afford to buy the medicine, which, unfortunately, is costly. This was given in doses (2,000 units) for the cure of the disease, and also in doses (1,000 units) to prevent the disease developing in other children of the family; that is to say, to immunize them. It soon became evident that the prices the department was paying for anti-toxin was more than we could spend, according to our appropriation, and we made a special effort to obtain a first-class article at lower rates. Fortunately we were successful in this, and we were enabled to supply a very large quantity, viz., 1,300,000 units. You will see by the tabulated report that there was a considerable increase in the number of cases of diphtheria during July, August and September, over those of the year before. October showed a less increase, November a slight decrease, and December a very marked decrease. We are highly gratified in producing this result, for we believe we are fully warranted in thinking, with the great increase in the number of cases in September, that December would have brought an epidemic of this disease had we not put into effect in July the system before described. The number of deaths from this disease was 412, against 362 of last year; but when the increase in the number of cases is considered, the increase in deaths is less in proportion.

TUBERCULOSIS.

You will see the usual large number of deaths from this disease, being about the same as last year, but it is very much higher than what we believe it ought to be. This disease can certainly be classed as a preventable one, inasmuch as but few cases are clearly inherited, and these die young. Of late there has been a special investigation made in London and New York City, and other large communities, and steps to stamp out or lessen the disease have been considered or adopted, and sooner or later we also will have to adopt such measures; but the effective carrying out of them will be impossible until our force is considerably increased. The

lessening of disease in a community depends upon two factors; first, the elevation and maintenance of the resisting power of individual citizens, and secondly, the destruction of the germs causing the disease. It seems to us clear that the elevation of the resisting power must be accomplished early in life, and the naturally weak strengthened, and the naturally strong placed in such condition that they will not be weakened. I refer especially to

OUR PUBLIC SCHOOLS.

It is not necessary to be educated in medicine to clearly see that our children are not benefited by the crowded and unsanitary conditions of our school-houses. The poor ventilation of the buildings especially constructed for schools is evidenced by the foul condition of the atmosphere in rooms where the children are collected. The bad condition of these rooms is only excelled by the condition of rooms used for the same purpose in buildings known as "annexes." These annexes were originally private houses, each room being built for the occupation of one or two persons, and I believe that with but little, if any alteration, children are crowded into them, anywhere from fifteen to thirty or more in number. I must earnestly urge you to pay prompt attention to this subject. The work of our Building Inspector the past year in improving the sanitary conditions, as much as he could, by substituting the old out-houses with sanitary closets within the school buildings, is an improvement that was much needed; but unfortunately is not the only one needed, and I fear not the most needed. I cannot help but feel that the starting of a large number of tuberculosis cases is during this school period of life, but unfortunately the clear manifestations of the disease are slow in development, and one not versed in such matters would have difficulty in tracing the cause and effect. Even under the present condition of things, which, I recognize, cannot be changed rapidly—for the want of money—it could be bettered by appointing physicians for the superintending the health of these schools, and also by introducing the best ventilation that can be done under the circumstances.

PNEUMONIA.

I regret to say that the number of cases of pneumonia the past year has been unusually large, and is greatly responsible for the

death rate of 19.19. You will see that from pneumonia alone there were 889 deaths, compared with 669 in 1897. The cause of this is greatly due to the visit of "la grippe," which is so productive of fatal pneumonia.

TYPHOID FEVER AND DIARRHEAL DISEASES.

The number of deaths from typhoid fever is 189—the same as last year. A few of these, however, were known to have been imported, so that, in all probability, we had a few less deaths than in 1897. The diarrheal diseases, however, of all kinds, affecting children and adults, still remain large, if not larger than last year, and I again call your attention to the fact that we believe these diseases are largely caused by infected water. We believe we have considered the question carefully from all standpoints, and being especially guided by the experience of other cities, we again urge upon you the necessity of purifying our water. The reports of our chemist, Dr. Lehmann, and our bacteriologist, Dr. Stokes, show, if anything, an increase in the pollution of our drinking water. We, therefore, urge upon you action in this matter as early as possible, because we know not when more serious conditions might arise. The water-shed has been improved by the removal of a number of nuisances which were reported by Dr. Everhart, the water-shed inspector, and by Messrs. Hopkins, Benton, Scully, Dapprich, Stokes and Gehrmann, who were appointed by the Water Board for the same purpose. This work is already valuable, and will continue to be so even after the establishment of a filtration system, or any other method that might be deemed best to purify the water.

SEWERAGE.

Baltimore's necessity for a sewerage system for the removal of house refuge has long been recognized and for many years urged by this department and by the citizens of Baltimore. We recognize that troubles arising from the system of privy pits are rapidly increasing not only in its effect upon health, but also in the method of cleansing the said pits, or providing drainage for them when they are almost constantly overflowing, due to the use of

water-closets within dwellings. First of all, while we recognize that bad odors in themselves do not produce disease, yet they certainly afford an excellent opportunity for increasing the ravages of disease when it once gains a foothold. Pure air, pure food and pure water are three essential elements to the maintenance of health, and air contaminated with foul odors is not pure. In the second place, as to the increase of work by this department, due to these pits, you will see by the report that privies were ordered to be cleaned. This work requires considerable time and energy on the part of our officers, but the work is still further increased by the difficulties that we have in managing the excavators. There are over one hundred firms licensed to do this work, and while many of them do it according to law, yet we know that there are very many who violate the laws more or less openly. Many convictions were obtained during the year, but they were few compared with the number of violations. Not only is the law violated in not carrying out the regulations of the Health Department as to the manner of excavating the pits, but also by carrying the offal to the counties and there dumping it in various localities. To prevent the nuisances arising from the conditions named above it will be necessary to increase our force.

SMALL-POX.

The city during the past year has been free from small-pox. In June last, as you will see by the report of our quarantine officer, Dr. John Ruhrah, the German-Lloyds steamer, *Maria Rickmers*, brought to quarantine one dead child due to small-pox, and one other child suffering with the same disease. Fortunately there was no outbreak, due to the care of the officers of the steamer and our quarantine officers. I ordered, however, that the officers of the Health Department be vaccinated, and I was particularly struck with the effect of the vaccination in producing greatly inflamed arms within forty-eight and seventy-two hours after the vaccination. This we knew to be due not to the vaccine virus, but to germs known as the pus germs—organisms which are believed to be a detriment to the vaccination; it is certainly disagreeable to the one vaccinated, causing a great deal of local

irritation, and frequently considerable fever. Knowing that glycerinated virus had been lately introduced, which was said to be free from the objection that I have just mentioned, I accordingly ordered Dr. Stokes, the city bacteriologist, to investigate the virus points that we had been using, and determine the number of pus germs present, and also to examine the glycerinated virus offered by several firms. In all examined Dr. Stokes found that the number of pus germs was so greatly reduced in the glycerinated preparation, and upon experiment, finding that the arms were not sore like those produced by the ivory points, I ordered the ivory points to be discontinued and glycerinated virus substituted. The report from my vaccine physicians show that in the number of "takes," that is to say, successful vaccinations, is as great if not greater than the virus first used.

COLLECTION OF ASHES AND GARBAGE.

This always presents to a city a great problem to solve. Aside from the question of expense in collecting these house-wastes, the proper disposal of them is one of great importance. Ashes and garbage ought to be completely separated, and the dumping of ashes mixed with garbage must be stopped. To establish a complete separation of ashes and garbage we must first start with the citizens and enforce upon them in one way or another the necessity of keeping the two separate. At first, no doubt, it will be inconvenient—perhaps even disagreeable, to some of our citizens to have this matter enforced, but the necessity for it is becoming more and more evident every day. The report of my inspector of dumps shows that they are what is called in a fair condition, but by personal inspection I know that they are in a condition that they ought not to be, and they are only fair in comparison to other years, and not fair according to what they should be. In carrying out this an increase in force is necessary, because there being so few police in the region where dumps are situated they cannot always detect those who dump ashes mixed with garbage, and to make a commencement in the prevention of further contamination of the dumps, I have informed the keepers of these dumps that I will hold them personally responsible for their condition.

CHEMICAL LABORATORY.

I especially call your attention to the very large amount of work performed in this department. The more work done the more we see to do. The value of the chemical laboratory to the city since its establishment has increased year by year, and we are now greatly in need of additional food inspectors. You will see by Dr. Lehmann's report that the two milk inspectors, Mr. Boram and Mr. Tuttle, are kept very busy, and yet cannot complete the work.

THE SUPPLY OF MILK,

especially to a large city, is an exceedingly important one, and of late years has been recognized as a source of disease. We have made a good beginning in this line of sanitary work, yet it needs a very great extension—not only an increase of force for the department, but also laws to be enacted to increase our power in that direction, both by the city and the State. Not only should there be a force to prevent the entrance of bad milk into the city, but also a system of inspection made very thorough to prevent the sending of bad milk to the city, to see that the milk is not exposed to the possibility of contamination with disease germs. The suggestion of Dr. Lehmann in raising the city standard for milk is a good one and I hope will be adopted.

BACTERIOLOGICAL DEPARTMENT.

Dr. William Royal Stokes shows by his report the increasing importance of this department to physicians and other citizens. The amount of work has so greatly increased that the necessity for an assistant in this department is clearly demonstrated if further development of our work is to take place. Further increase in the work will be demanded of us by the people, but I do not see how we can meet that demand with only one bacteriologist. Cities in this country both smaller and larger than Baltimore have from four to forty bacteriologists to do the work.

It must be remembered that the important work in assisting physicians in their diagnoses must be done between 8.30 and 10

o'clock in the morning, in order to send results to the physicians in time before leaving their offices. In addition to that it often becomes necessary that a large number of throats be examined when the clinical or apparent evidence of disease is not present; as, for example, the examination of an entire class or school when we have evidence that the children have been exposed to disease.

It should also be remembered that the department is yet in its infancy, and that the extension of the work to the examination of great numbers of specimens of water, milk and other food, the detection of typhoid fever, of cerebro-spinal meningitis, tuberculosis, and other diseases, you can readily see cannot be carried much further without assistance. Again, if at any time the bacteriologist should be taken sick, there is bound to arise great confusion and discontent by his work not being done promptly, because you know that while good bacteriologists can be obtained, yet, not being acquainted with the routine work, it would take them some little time to become thoroughly versed in it. Dr. Stokes' report deserves very careful reading, and I am quite sure will be gratifying to you in the amount of work accomplished not only in the examination for disease, but also in the examination of water, which should be purified.

QUARANTINE.

The report of our quarantine officer, Dr. John Ruhrah, is given in detail below. It is only necessary for me to say that the work has been highly satisfactory to all concerned, and I beg of you careful attention to his suggestions for improvements of the station. A majority of our people know so very little about what is necessary to be done at such stations, and are particularly poorly acquainted with the advances in the character of the work required, that they cannot fully appreciate the value of the suggestions made. I am quite sure, however, that our merchants, recognizing the value of time, need only be told that by the improvements asked for they can save from three days to two weeks on vessels that might happen to be quarantined. Our increasing foreign trade, particularly with the countries in the torrid zone, certainly must increase the danger of importing disease here. It is true we can

fight disease as we are now armed, but we can do so only at the great detriment of the merchants concerned, and therefore we call their especial attention to it.

ANNEX.

That portion of our city known as the "Annex" is developing rapidly, and developing in such a manner, except in a few instances, that promises to present not only abominable nuisances as to sight and smell, but actually dangerous to the health of the people concerned. This department will use its utmost endeavors to meet the conditions that undoubtedly will arise this summer, but I am quite sure that the people will be considerably inconvenienced by the fact that our force cannot compete with it. For years houses have been built with alleys in the rear which have not been paved, or very poorly paved and in consequence their present condition is very bad. While Section 74, Article 23, gives this department, by the aid of subsequent amendments, power to prosecute persons who do not obey our notices to pave alleys, yet as this is always an exceedingly disagreeable duty to perform, and also one that takes up a great deal of time, I earnestly request you to have ordinances passed that will require all builders to pave the alleys in the rear in such a manner that they will be passed upon and accepted by the City Commissioner; but, of course, not to make the city responsible for their subsequent repaving. If this is carried out with the new buildings that will no doubt be constructed in 1899, there will be a considerable lessening in future years of the amount of work required in ridding the places of nuisances.

NAMES OF STREETS AND NUMBERS OF HOUSES.

Not very long ago the houses of this city were all renumbered, and the result was satisfactory. But it comes to the attention of this department, through the experience of our inspectors, that there are quite a number of streets that have the same names, and the numbers of the houses on these streets, especially in the Annex, are very irregular. This is, at times, a serious inconvenience. We frequently have hurried calls to make investiga-

tions, and when it occurs on a street whose name is duplicated, and yet being in an entirely different section of the city, you can readily see much time is lost, and great annoyance produced not only to the department but also to the people whom we desire to serve.

INSPECTION OF PLUMBING AND DRAINS.

This division of the Health Department is ably officered by Joseph C. Mitchell and Joseph Pilson, but the requirements of the law and the rules of this department cannot with certainty be carried out without seriously interfering with the work of the contractors in the point of time; that is to say, if this department holds up everything strictly to the requirements of law and the regulations of this department, and inspect every piece of new plumbing work as well as the old, and inspect every drain that is laid before it is covered up, the difficulties arising from it will be so great that the people would openly and justly protest. The Laws are right, we beleive; the regualations are right, and it ought to be seen that they are complied with in every case, but to do this an increase in our force is neccessary.

OLD QUARANTINE.

In view of the fact that it seems improbable that we can use "old Quarantine" for the purpose of isolating any disease, because of the injunction that now stands against the City of Baltimore preventing it from placing the leper on these grounds, I recommend that the said "old Quarantine" be rented or sold by the city at the earliest possible moment.

POTTERS' FIELD.

The experience of the past year shows that there is no need of two "potters' field," the Eastern and the Western, and if the city can obtain a good price for the same I recommend that the Eastern "potters' field" be sold.

Yours respectfully,

C. HAMPSON JONES, M. D.,

Commissioner of Health.

REPORT

—OF THE—

SECRETARY.

REPORT.

HEALTH DEPARTMENT,

BALTIMORE, January 1, 1899.

C. Hampson Jones, M. D., Commissioner of Health:

DEAR SIR: I have the honor to submit the following statistical reports of this department for the year ending December 31, 1898.

Respectfully yours,

ALBERT K. HADEL, M. D.,

Secretary of the Board of Health.

TABLES.

VITAL STATISTICS OF THE CITY OF BALTIMORE FOR THE YEAR ENDING DECEMBER 31, 1898.

Estimated population, white			463,000
" " colored			78,000
Total			541,000
Marriages, 4,481. Rate per 1,000 of population		8.28	
Births (reported), white males	3,787		
" " " females	3,440		
Total		7,227	
Births (reported), colored males	787		
" " " females	779		
Total (reported)		1,566	
Total males	4,574		
" females	4,219		
Grand total		8,793	
Birth rate per 1,000, white population	15.60		
" " " colored "	20.07		
" " " whole "	16.25		
Still births		748	
Total mortality white males	4,109		
" " " females	3,809		
Total		7,918	
Total mortality colored males	1,216		
" " " females	1,251		
Total		2,467	
Total males	5,325		
" females	5,060		
Grand total		10,385	
Annual death rate per 1,000, white population			17.10
" " " " colored "			31.62
" " " " whole "			19.19
Total number of deaths from Measles		48	
" " " Scarlet fever		46	
" " " Diphtheria		362	
" " " Croup		50	
" " " Whooping-cough		64	
" " " Typhoid fever		189	
" " " Typho-malarial fever		12	
" " " Diarrhoea		97	
" " " Dysentery		82	
" " " Cholera infantum		386	
" " " Cholera morbus		12	
" " " Consumption		1,061	
" " " Pneumonia		889	
" " " Bronchitis		116	

Total number of deaths from Influenza	25
" " " Bright's disease	454
" " " Cancer	331
" " " Disease of heart	498
" " " Sun and heat stroke	54
" " " Pernicious anaemia	5
" " " Appendicitis	34
" " " Illuminating gas	9
" " " Accidents	78
" " " Cerebro-spinal fever	3

TOTAL NUMBER OF DEATHS FROM ABNORMAL CONDITIONS CONNECTED WITH PARTURITION.

Puerperal fever		1
" convulsions		11
" peritonitis		10
" septicaemia		7
Child-birth		23
Abortion		1
Hemorrhage post-partum		1
Total mortality under five years of age		3,939
Percentage to total mortality	37.92	
Total mortality from diarrhoeal diseases under five years.		720
" " " " " all ages		970

DEATHS IN PUBLIC INSTITUTIONS.

Baltimore City Jail	5
Penitentiary	10
Hospitals and asylums	1,040
Total	1,055
Deaths reported by Coroners, including inquests	837
Total autopsies	89
Bodies received at City Morgue	337

ALBERT K. HADEL, M.D.,

Secretary Board of Health.

TABLE I.

Showing the Number of Cases Reported and Mortality From the Principal Zymotic Diseases During the Years 1894, 1895, 1896 and 1897, Compared with 1898, with Percentage of Death to Cases Reported in Each Year.

Diseases.	Cases Reported in 1894.	Deaths Reported in 1894.	Percentage of Deaths in 1894.	Cases Reported in 1895.	Deaths Reported in 1895.	Percentage of Deaths in 1895.	Cases Reported in 1896.	Deaths Reported in 1896.	Percentage of Deaths in 1896.	Cases Reported in 1897.	Deaths Reported in 1897.	Percentage of Deaths in 1897.	Cases Reported in 1898.	Deaths Reported in 1898.	Percentage of Deaths in 1898.
Diphtheria	267	198	74.15	371	265	71.42	480	249	51.87	1,491	347	23.27	2,077	412	19.83
Scarlet fever	999	85	8.50	775	59	7.61	694	31	4.46	928	53	5.71	588	46	7.82
Croup *a*	142	33	23.33	258	45	17.44	173	32	12.65	129	13	10.07	.....	.....	.....
Measles	98	3	3.06	2,332	68	2.91	1,002	27	2.69	659	16	2.42	1,419	48	3.38
Varioloid	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Varicella	53	1	1.88	40	.....	.....	68	2	2.94	47	1	2.12	119	.....	.....
Whooping cough	320	112	35.00	171	68	39.76	266	87	32.87	213	42	19.71	335	64	19.10
Mumps	80	1	1.25	62	2	3.22	73	1	1.36	132	.....	.....	22	.....	.....
Typhoid fever	222	.....	*260	173	66.53	472	188	39.83	363	189	52.06	545	189	34.68	
Consumption	1,106	.....	.....	1,141	.....	.....	1,122	.....	.....	1,047	.....	.....	1,061	.....	
Pneumonia	790	.....	.....	933	.....	.....	884	.....	.....	759	.....	.....	889	.....	
Cholera infantum	440	.....	.....	510	.....	.....	412	.....	.....	401	.....	.....	386	.....	

*Compulsory reporting of typhoid fever went into effect July 1, 1895.
a Croup included with Diphtheria.

TABLE II.

CONTAGIOUS DISEASES REPORTED.

Diseases Reported.	First Quarter.	Second Quarter.	Third Quarter.	Fourth Quarter.	Total.
Diphtheria	455	235	521	808	2,019
*Croup	37	21	.....	.....	58
Measles	539	739	98	43	1,419
Scarlet fever	231	139	97	121	588
†Typhoid fever	41	37	282	185	545

Total births	8,793
Total still births	748
Population estimated	541,000
Total marriages	4,481
Death rate	19.19

*Beginning with June, croup was included with diphtheria.
†48 cases contracted outside of city in September, 5 cases in October, 3 cases in November, 6 cases in December.

TABLE III.

Annual Report of Deaths from all Causes in the City of Baltimore for the Year 1898.

Causes of Death.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Tot'ls.
A.													
Abscess					5		2	2		1		1	11
" ear						1							1
" cerebal							1						1
" liver	1	2		7						2			12
" neck									1		1		2
" kidney							1				1		2
" pelvis	2					1					1		4
" face		1											1
" ovarian		1											1
" multiple				1									1
" cellular							1						1
Anaemia	2			1	1	1	2	2	1	1			11
" cerebral								1					1
" pernicius	3							1	1				5
Angina pectoris	1	1	2	6	6		3	3	1			1	24
Appendicitis	3	2	5	1		4	2	2	5	3	4	3	34
Apoplexy	24	22	30	25	18	23	17	20	16	22	20	25	262
Ascites				1			1	2					4
Asthma	1	2	5	6		3		1	4	1	4	6	36
Albuminuria	1	1	2	3	4		2		2		1		16
Asthenia	7	6	9	6	11	11	6	1	2	11	8	4	82
Aneurism of aorta	2			2	1			2	3	1			11
Atelectasis pulmonum	1		4	2	3	1			2	3	1	1	18
Asphyxia	3	2	3	1			1	4		3	2	1	20

Abortion						1							1
Atrophy		2	1	1		2			1				7
Addison's disease							1		1	1		1	4
Adynamia		1			1		1						3
Adenitis			1										1
Acromegaly											1		1
Arthritis				1									1
Accident						22	19	8	21	1	4	3	78
Alcoholism		1	4	3	4	3	2	2	1	1		2	23
Arterio sclerosis							6	1	2	3	4	4	20
B.													
Bright's disease	32	39	57	50	38	47	29	36	47	46	51	62	534
Burns	8	2	4	1	1					5	5	5	31
Bronchitis	22	33	35	35	26	17	12	16	11	13	16	28	264
" capillary	11	14	15	10	6		2	1	3	4	1	13	80
" catarrhal						3			2				5
Brain, effusion of											1		1
C.													
Cancrum Oris									1				1
Carbuncle			1		1					1		1	4
Cirrhosis of liver	7	1	6	1	5	4	9	6	3	3	5	7	57
Congestion of brain	1		7	1	3	2	3	3	2	1	3	1	27
" " liver						1		1					2
" " lungs	2	2	7	6	3		1		1	18	5	10	55
" " kidneys											1		1
" " stomach					1								1
Congestive chills										1	1		2
Consumption of lungs	108	89	114	79	84	93	73	90	63	80	98	90	1,061
" " throat											2	3	5
" " bowels		1	6										7

TABLE III.—Continued.

Causes of Death.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Tot'ls.
Convulsions	14	18	25	29	37	31	33	34	15	14	15	36	301
" puerperal			2	2	1	2					3	1	11
Croup	2	1	4		4	5	2	1	1	7	3	3	33
" pseudo-membranous											8	9	17
Cyanosis	4	4	6	2	1	3	1	3	1			4	29
Childbirth	4	2		4			4	3	2	2		2	23
Chorea		1		1	1	1							4
Chlorosis		1	1										2
Calculus					1	3	1				1		6
Catarrh of bladder							1					1	2
" gastric						1	8		1	1		2	13
" intestinal					1								1
Cystitis	3		3	1	1	2	3	5	3		3	2	26
Caries of spine							1				1		2
Cholera infantum	1	1		1		95	145	96	38	9			386
" morbus						3	4	2	1	2			12
Concussion of brain	1	2		3		1				1	1		9
Cellulitis		2					1			1		1	5
Cancer						2	4	5	2	1	6	3	23
" stomach	13	5	6	11	7	16	7	8	4	6	7	6	96
" shoulder		1											1
" lymphoma												1	1
" nose							1						1
" liver	1	3	3	4	3	2	2	2	1	3	2		26
" maxillary		1	2		1								4
" face		1	2		1		1	1				1	7
" breast	5	6	3	6	1	2	2	1		1	2	4	33
" uterus	10	6	5	6	12	6	6	6	1	4	6	5	73

Cancer neck	1					1				1	2		5
" kidneys	1		1						2	2	1		7
" tongue	1	1			1		1		1				5
" diffused				2	3		1						6
" rectum	2	1				2	1		2	1	1		10
" bladder		1					1				1		3
" omentum	1												1
" jaw											2		2
" mouth							1			1			2
" oesophagus		1		1						1			3
" cervix					1								1
" side				1									1
" pylorus											1		1
" throat		1					1		1			1	4
" tonsils											1		1
" scalp		1											1
" back			1										1
" bowels					1	1	1	3		1		1	8
" duodenum						1	1						2
" cutis						1							1
" femur												1	1
Curvature of spine										1			1
D.													
Dentition	6	5	7	8		6	9	3	11	3	4	3	65
Diabetes	3	5		3	1	5	5	5	3	1		6	37
Diarrhoea	1	1		11	2	15	34	12	8	7	3	3	97
Disease of the heart, valvular	39	46	48	37	52	42	48	40	46	36	29	36	499
Disease of the heart, endocarditis	5	4	10	5	8	5	1	3	4	5	4	2	56
Dropsy, general		1	2	1	5	3	3	3	2	2	3	1	26
" cardiac							2				3	2	7

TABLE III.—Continued.

Causes of Death.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Tot'ls.
Drowned		1	6	7	4		6			3	3	1	31
Dysentery	2	4	2	1	3	11	22	20	13	2	1	1	82
Delirium tremens						1	1				1		3
Dyspepsia					1	4	4	2	4				15
Dementia, senile						1							1
Debility, general										1	3	3	7
Difficult delivery											1		1
Diphtheria	30	30	24	21	10	22	38	21	45	47	50	24	362
E.													
Erysipelas		2	2	3		1	1	2	2	2	1	3	19
Elephantiasis		1											1
Enteritis					2	7	19	7	12	4	3		54
Empyema	1						2						3
Exposure		1											1
Enterocolitis	2	3	2	5	2	21	46	25	31	9	2	5	153
Epilepsy		2	3	2				1				2	10
Embolism						1							1
Emphysema				2				1	1	1			5
Eclampsia										1			1
Endometritis											1		1
Embolism, cerebral												1	1
Embolism, coronary artery.												1	1

F.													
Fever, bilious				1									1
" brain						2							2
" catarrhal				1				1					2
" cerebro-spinal				2							1		3
" congestive					1								1
" gastric						1							1
" intermittent		1		1		1			2		1		6
" rheumatic					1							2	3
" remittent	1	1	1	1			3	2	1	1			11
" malarial	2				1	4		6	3	5	2	2	25
" puerperal	2	1		4	3		3				5	4	22
" scarlet	2	7	5	9	8	8	2	2	2	1			46
" typhoid	12	8	16	7	8	9	19	23	32	24	23	8	189
" typhoid-malarial	2			2				1	1	2	2	2	12
Fracture				4					1		1	1	7
" skull		3	6	1	2	6	3	3	2	5	3	5	39
" femur	1	1		2	1	1			1				7
" maxilla										2			2
" neck				1		1							2
" tibia		1											1
" spine											1		1
G.													
Gangrene						1						1	2
" senile	1	2	3	4	1	1							12
" leg		2				1							3
Gastroenteritis	3	5	3	6	2	22	39	40	29	24	4	4	181
Gall stones	1	1		1			1						4
Graves' disease												1	1
Gastritis	11	3	10	10	7	10	10	9	7	8	9	9	103
Goitre												1	1

TABLE III.—Continued.

Causes of Death.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Tot'ls.
H.													
Hernia		1			1	2	1						5
" strangulated			2	4		3		2	1		1		13
" umbilical								1				1	2
Hemorrhage					1	2	1	1		1	3		9
" of stomach									2			2	4
" " brain		9	10	6	14	5	3	2	9	7	8	12	85
" " lungs		3	2	1	2	2	1	3	3	3	1	1	22
" " post partum				1		1							2
" " umbilical		1	1	2				1	1		1	4	11
" " bowels				1					1				2
" " uterus			1									1	2
Hemorrhage, internal							1					1	2
Hydrocephalus	1	1	1	1	1	2	2		1				10
Haemoptysis	2	1	2						1	1			7
Haemetemesis	1		1				2						4
Hepatitis					2				2				4
Hydrocele					1								1
Hemiplegia					5	8	7	2	5	4	3	8	42
Hodgkin's disease					2								2
Haematuria						1							1
Hiccoughs												1	1
I.													
Inanition	15	18	17	13	13	28	34	25	26	30	22	17	258
Indigestion		6	1							1	1		9

Inflammation of brain	2	1	1		2	1	2	2	1				12
" " spine							1						1
" " bowels	2	5	2	1	1		1		2			4	18
*Influenza	1	4	4	8			3	2	1	1	1	45	70
Intussusception			2	1		2	4			2	2	1	14
Insanity	2				1		1	3					7
Ischuria											3		3
Intestinal obstruction						1				1	1	1	4
Injury, internal					1						1		2
" birth					1	1							2
" eye						1							1
Ilio-colitis						1		1	3				5
J.													
Jaundice		4	4	2		2	1	3			1	2	19
" catarrhal							1				1		2
L.													
Laparotomy	1	2	3		2		1			1		1	11
Laryngitis		1			7	1	1				1	1	12
Laryngeal stenosis						1						1	2
Lymphatic Leucaemia												1	1
M.													
Myocarditis	2												2
Myelitis	1		2	1		1			2	1		1	9
Marasmus	13	15	16	13	16	25	50	42	49	38	20	16	313
Measles	1	7	5	6	9	12	5	3					48
Meningitis	16	10	28	20	28	22	20	13	19	6	8	7	197

*The forty-five cases of influenza in December were returned as la grippe.

TABLE III.—Continued.

Causes of Death.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Tot'ls.
Meningitis, tubercular	3	3	9	6	12	6	8	8	3	3	6	1	68
" spinal										1		2	3
" cerebro spinal			6	4	17	10	5	7	8	1	6	3	67
Murder		1			1	4		3	2	3	7	3	24
Multiple neuritis							1			1			2
Malformation			2	1	1								4
" cardiac									1				1
Myomata sub-mucous						1							1
Mycosis							1						1
N.													
Neuritis								1	1				2
Neurasthenia		4		1	1	1	1				1		9
Necrosis					1				1		1		3
Non-closure of foramen ovale							2						2
Natural causes											1	3	4
O.													
Oedema of glottis		1											1
" " lungs			1	1		1				1	1	2	7
Ovariotomy			2	1									3
Old age	27	28	34	22	24	31	43	30	35	28	29	31	362
Otorrhoea					1								1
Orchitis										1			1

	P.												
Pyelo-nephritis					1							1	2
Paralysis	21	21	27	34	13	13	12	8	4	6	19	14	192
" of brain					1	1							2
" " medulla						1							1
" " tongue						1							1
" " diaphraghm									1		1		2
" " agitans												1	1
" " cardiac									3	2			5
" " diphtheretic									1		1		2
Pneumonia	78	104	168	81	75	45	19	16	26	39	75	163	889
" broncho	7	19	17	10	11	16	2	3	1		7	18	111
" catarrhal					4				1		2	2	9
" pleuro	1	1	3	2	1		1	3	1		3		16
" typhoid	4	1		2	5				1			1	14
Poison	1	1	4		4	2	1	1					14
Premature birth	18	10	13	15	20	18	30	8	22	13	13	25	205
Progressive locomotor ataxia		1	2		1	1		1	1		1		8
Pyaemia		1	1	1	2				2			1	8
Prolonged labor	1									1	1		3
Purpura hemorrhagica	1												1
Prostatitis			1	1					1			1	4
Pregnancy, extra uterine	1												1
Paresis		3	3	4	5	3		2		1	1	1	23
Pleurisy	4	3	3	3	1	1	1	1	1	1	2	2	23
Phlebitis					1								1
Peritonitis	1	2	5	5	10	8	6	19	7	9	6	4	82
Peritoneal tuberculosis							2		1				3
Paraplegia					2								2
Prostration, heat						2							2
" nervous						1			1			1	3
Pericarditis	2	1	1	1		1	1		1		1		9

TABLE III.—Continued.

Causes of Death.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Tot'ls.
Pyo-pneumo thorax						1				2			3
Prolapse of cord												1	1
Pulmonic stenosis												1	1
R.													
Rheumatism	5	1	2	2	8	2	4	5	3	5	3	3	43
" inflammatory							1						1
" muscular									1				1
Rachitis									2				2
S.													
Sclerosis of spine		1					2	1					4
" " oesophagus			1										1
Stricture of colon											1		1
" " intestines	2	2	3	2	3	1		1					14
" " urethra					1								1
" " rectum								1					1
Scrofula	2				1								3
Suffocation								2					2
Suffocation, by illuminating gas		1		1	2	3						2	9
Septicaemia		1	2	2	8	4	4	3	3	2	10	4	43
Suicide	2	8	8	3	5	2	7	4	5	3	4	5	56
Syphilis	4	5	6	1	2		1	2				3	24
" hereditary						5	4		5		4		18

Scalds	1	2	1	1									3	8
Shock					1					2	1	1		5
Syncope					1					1	1			3
Stomatitis					1		1				1			3
Sunstroke						1	38	5	13					57
Symphysiotomy									1					1
T.														
Toxaemia							1			1				2
Trismus nascentium	1	2	1	2	1		4	5	2	1	3	1		23
Tumor								8		1				9
" cerebral				1	1			1						3
" abdominal		1							1	1		1		4
" liver									1					1
" ovarian	1		1		1	1			1	1		1		7
" thyroid									1					1
" pelvis									2					2
" uterus			1		1				1			1		4
" scapula							1							1
Tetanus	1				1		3	3	1	1	1			11
Tabes mesenterica		1		2	1			1	1					6
Tabes dorsalis							1		1					2
Tuberculosis					3	2	10	5	16		5	10		51
" laryngeal								1	1		1			3
" miliary									3	2				5
" of bones												1		1
" " throat	1					1	3							5
" " bowels									1					1
" " abdomen					1				2					3
" " intestines											1	1		2
Thrombosis of heart							2					1		3
Thrombosis						1					1			2
Tonsilitis		1	1			1		1			1	2		7

TABLE III.—Concluded.

Causes of Death.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Tot'ls.
U.													
Uraemia	2	2	1	4	1	3	1	1			4	7	26
Urinaria infiltration								1					1
Unknown	1	3	3	3	3		1		2	1	2	1	20
Ulcer of stomach			3	6	2	2	2		2	1	1	1	20
" " varicose							1				1		2
" " veins											1		1
" " epithelial												1	1
W.													
Whooping cough	5	9	14	7	5	7	7	6	3			1	64
Wounds							1		1				2
" by cars	1	1	5	2	4								13
" " fall	4	2	6	2	2								16
" " gun shot			2										2
" " pistol shot		2											2
" " electric shock				1	1								2
" " horse kick					1								1
" " crushed		1		3									4

TABLE IV.

Ages.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
Under 1 year	148	173	226	162	166	315	458	315	273	170	126	192	2724
Between 1 and 2 years	33	55	67	46	50	67	57	59	52	35	30	29	580
" 2 " 5 "	41	50	52	54	67	63	53	36	41	53	64	61	635
Total under 5 years	222	278	345	262	283	445	568	410	366	258	220	282	3939
Between 5 and 10 years	27	28	31	28	29	32	34	22	34	31	41	26	363
" 10 " 15 "	6	9	19	22	12	21	23	16	20	12	8	17	185
" 15 " 20 "	23	31	36	26	24	16	26	24	21	19	22	26	294
" 20 " 30 "	56	62	95	60	64	75	80	69	77	55	81	79	853
" 30 " 40 "	65	56	75	73	71	68	69	64	70	52	68	78	809
" 40 " 50 "	59	70	85	49	80	64	69	58	58	61	78	78	809
" 50 " 60 "	70	81	94	91	85	65	65	50	67	68	76	105	917
" 60 " 70 "	77	8	78	78	67	76	90	77	64	78	75	113	881
" 70 " 80 "	53	71	84	82	62	70	69	61	65	45	74	98	834
" 80 " 90 "	34	25	49	33	27	33	36	28	25	28	34	44	396
" 90 " 100 "	4	9	4	5	3	2	5	1	3	7	6	8	57
" 100 " 110 "					2								2
Unknown		41	4									1	46
Totals	696	769	999	809	809	967	1134	880	870	714	783	955	10,385

TABLE IV—Continued.

Nativity.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
White—males	276	295	363	322	322	377	461	352	367	291	338	338	4,102
" females	257	278	379	289	268	348	412	345	292	257	290	391	3,806
Colored—males	72	90	120	100	116	134	130	91	113	72	70	110	1,218
" females	91	106	137	98	103	108	131	92	98	94	85	116	1,259
Totals	696	769	999	809	809	967	1134	880	870	714	783	955	10,385
Among the above number of white deaths are included 1,685 of foreign birth.													
Still Births	64	69	62	62	64	57	46	75	64	50	68	67	748
Marriages	379	367	289	481	306	407	258	296	375	455	473	395	4,481
Births (reported)	816	630	700	638	677	711	722	803	725	844	735	792	8,793

Population (estimated)—White, 463,000; colored, 78,000; total, 541,000. Total mortality during the year—White, 6,233; foreign, 1,685; colored, 2,467; total, 10,385. Annual death rate per 1,000, whole population, 19.19; white 17.10; colored, 31.62. Total births (reported), 8,793; birth rate per 1,000 population, 16.25. Marriages, 4,481; marriage rate per 1,000 population, 8.28. Total still births, 748.

TABLE V.

1898. BIRTHS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
White—Males	372	259	290	284	314	269	391	305	323	376	276	328	3,787
" Females	323	250	304	237	259	292	125	343	280	344	333	350	3,440
Total	695	509	594	521	573	561	516	648	603	720	609	678	7,227
Colored—Males	61	73	45	62	44	79	104	81	53	58	64	63	787
" Females	60	48	61	55	60	71	102	74	69	66	62	51	779
Total	121	121	106	117	104	150	206	155	122	124	126	114	1,566
Total births reported	816	630	700	638	677	711	722	803	725	844	735	792	8,793

TABLE VI.

Months.	Measles.	Scarlet Fever.	Diphtheria.	Croup. *a.*	Whooping Cough.	Typhoid Fever.	Diarrhœal Diseases.	Diarrhœal Diseases Under Five Years.	Puerperal Fever.	Cancer.	Phthisis Pulmonum.	Other Tuberculous Diseases.	Congenital Debility. *b.*	Diseases of Nervous System.	Heart Disease.	Bronchitis.	Pneumonia.	Diseases of Digestive Organs.	Bright's Disease.	Accidents. *c.*	Homicide.	Suicide.	Total Deaths.	Total Deaths Under Five Years.
January	1	2	32	....	5	12	9	6	2	35	108	3	19	73	44	33	90	25	33	8	....	2	696	222
February	7	7	31	....	9	8	14	8	1	30	89	5	22	79	50	47	125	11	40	9	1	8	769	278
March	5	5	28	....	14	16	7	6	....	23	114	15	25	131	58	50	188	23	59	24	....	8	999	345
April	6	9	21	....	7	7	24	12	4	31	79	8	16	107	42	45	95	27	53	18	....	3	809	262
May	9	8	14	....	5	8	11	4	3	29	87	14	15	121	60	32	96	19	42	14	1	5	809	283
June	12	8	27	....	7	9	175	137	....	40	95	6	31	95	47	20	61	37	47	35	3	2	967	445
July	5	2	40	....	7	19	309	230	3	28	83	8	37	76	51	14	22	30	31	64	1	7	1,134	568
August	3	2	22	....	6	23	203	161	....	26	95	10	28	72	43	17	22	25	36	20	3	4	880	410
September	....	2	46	....	3	32	135	98	....	13	79	11	28	71	50	16	30	13	49	28	2	5	870	366
October	....	1	54	....	....	24	57	42	....	19	80	5	30	51	41	17	39	24	46	22	....	3	714	258
November	....	....	61	....	....	23	13	6	5	33	103	10	22	65	36	17	87	25	52	21	1	4	783	220
December	....	....	36	....	1	8	13	10	4	26	100	6	21	71	40	41	184	20	62	16	....	5	955	282
	48	46	412	....	64	189	970	720	22	333	1,112	101	294	1,012	562	349	1,039	279	550	279	12	56	10,385	3,939

a. Croup included with diphtheria.
b. Including premature births, atalectasis, cyanosis, atrophy and inanition.
c. Including sun-stroke and surgical operations.

TABLE VII.

Comparison of Deaths from All Causes, and from Specified and Contagious Diseases for Twenty-two Years, from 1877 to 1898 inclusive.

Years.	Population.	Measles.	Scarlet Fever.	Typhoid Fever.	Croup.	Diphtheria.	Whooping Cough.	Dysentery.	Cholera Infantum.	Children Under 5 Yrs.	Total Mortality. All Causes.
1877	311,275	161	597	235	157	455	297	52	616	4,584	7,910
1878	318,182	11	141	176	149	303	63	41	343	3,372	6,733
1879	325,139	43	367	166	186	298	80	60	475	3,385	7,618
1880	332,313	12	400	196	173	293	148	57	503	3,602	8,043
1881	339,649	162	215	197	242	639	93	56	558	3,919	8,116
1882	347,142	71	179	165	222	707	43	62	390	3,755	8,923
1883	354,832	130	334	126	201	591	59	52	473	4,062	9,380
1884	362,668	228	104	151	127	343	120	43	496	3,643	8,293
1885	370,696	16	68	155	148	252	63	60	498	3,228	8,153
1886	378,903	201	32	150	128	190	91	84	485	3,565	8,339
1887	387,300	85	36	156	153	149	98	137	567	3,477	8,372
1888	395,899	176	44	161	98	118	112	167	654	3,881	8,936
1889	404,498	11	71	191	53	155	54	156	572	3,505	8,703
1890	413,671	248	42	247	45	274	100	212	507	4,117	10,198
1891	426,917	16	128	150	44	350	103	118	531	3,910	10,073
1892	440,163	120	258	193	47	381	32	109	661	4,443	10,582
1893	453,409	39	36	224	25	185	60	62	444	3,604	9,554
1894	466,655	3	85	222	33	198	112	72	440	3,761	9,486
1895	479,907	68	59	173	45	265	68	70	510	4,026	10,301
1896	493,147	27	31	188	32	249	87	82	412	3,728	9,919
1897	506,398	16	53	189	13	347	42	57	401	3,510	9,329
1898	541,000	48	46	189	50	362	64	82	386	3,939	10,385

TABLE No. VIII.

SHOWING TOTAL DEATHS, AND DEATHS FROM ZYMOTIC DISEASES FOR TWENTY-FOUR YEARS, WITH PERCENTAGE OF DEATHS TO TOTAL MORTALITY FROM 1875 TO 1898, INCLUSIVE.

	1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.	1897.	1898.
Total deaths, exclusive of still births	7,258	7,498	7,910	6,733	7,618	8,043	8,816	8,923	9,380	8,035	8,153	8,339	8,244	8,936	9,365	10,198	10,073	10,582	9,554	9,486	10,301	9,919	9,329	10,385
Death rate	22.33	22.38	22.60	18.44	19.30	20.41	22.37	21.81	22.93	20.77	19.55	19.98	19.16	17.87	17.40	22.41	22.14	23.25	20.99	20.84	20.76	19.60	18.43	19.19
Still births	560	588	538	655	620	636	651	677	701	746	650	718	669	694	784	800	811	813	770	721	666	678	706	748
Rate of still births to 1,000 inhabitants	1.70	1.75	1.53	1.79	1.57	1.61	1.65	1.71	1.71	1.82	1.59	1.72	1.60	1.63	1.84	1.75	1.78	1.78	1.69	1.58	1.34	1.33	1.39	1.38
DEATHS FROM ZYMOTIC DISEASES.																								
Diphtheria and croup	238	249	557	452	384	176	881	929	792	470	400	318	302	216	206	319	394	428	210	231	310	281	360	412
Fever, scarlet	519	562	147	141	80	400	215	179	334	104	68	32	36	44	71	42	128	258	36	85	59	31	53	46
" typhoid	187	176	201	175	367	196	197	165	126	151	155	150	156	161	191	247	150	193	224	222	173	188	189	189
" cerebro spinal	53	25	17	26	1	26	37	38	42	20	24	24	19	22	18	31	18	38	59	26	27	32	22	3
Whooping cough	78	39	303	63	80	148	93	43	59	120	63	91	98	112	54	100	103	32	60	112	68	87	42	64
Measles	15	43	151	11	43	12	75	71	130	228	16	201	85	176	11	248	16	120	39	3	68	27	16	18
Small-pox	1			1	1	1	11	551	633	1		1												
Total zymotic diseases	1,091	1,094	1,676	869	956	1,259	1,509	1,976	2,116	1,094	726	817	696	731	551	987	809	1,069	628	679	705	646	682	762
Percentage of zymotic deaths to total mortality	15.03	14.59	21.18	12.90	12.53	15.65	17.11	22.14	22.25	13.51	8.90	9.78	8.46	8.18	5.88	9.67	8.03	10.10	6.57	7.15	6.84	6.51	7.31	6.85

TABLE IX.

Showing the Number of Deaths Annually from Typhoid and Typho-Malarial Fevers Combined During a Period of Eleven Years, from 1888 to 1898 inclusive, Male and Female, White and Colored, in the City of Baltimore.

Year.	Estimated Population.	White.			Colored.			Total Males.	Total Females.	Total Deaths.
		Males.	Females.	Total.	Males.	Females.	Total.			
1888.....	395,899	88	90	178	80	14	94	168	104	272
1889.....	404,498	88	93	181	23	20	43	111	113	224
1890.....	413,671	135	109	244	26	31	57	161	140	301
1891.....	426,917	82	75	157	13	19	32	95	94	189
1892.....	440,163	90	102	192	19	15	34	109	117	226
1893.....	453,409	108	120	228	11	16	27	119	136	255
1894.....	466,655	103	104	207	23	27	50	126	131	257
1895.....	479,907	82	75	157	21	14	35	103	89	192
1896.....	493,147	93	81	174	16	14	30	109	95	204
1897.....	506,398	99	76	175	20	14	34	119	90	209
1898.....	541,000	96	62	158	19	24	43	115	86	201

TABLE X.

SALARY ACCOUNT FOR THE YEAR 1898. APPROPRIATION, $45,660.

Dr.		*Cr.*	
To deficiency appropriation 1897	$ 3,647 74	By voucher 1	$3,246 58
To general appropriation for 1898	42,012 26	" " 33	3,246 58
		" " 73	4,846 79
		" " 119	3,093 33
		" " 160	3,218 79
		" " 196	4,921 76
		" " 237	3,246 60
		" " 278	3,246 57
		" " 347	4,901 96
		" " 399	3,249 41
		" " 428	33 33
		" " 460	3,234 81
		" " 502	4,815 52
		" " 516	75 00
		" " 518	75 00
			$45,452 03
		By unexpended balance	207 97
	$45,660 00		$45,660 00

TABLE XI.

GENERAL HEALTH ACCOUNT FOR THE YEAR 1898. APPROPRIATION $12,000.

Dr.		*Cr.*	
To 496 warrants on Comptroller	$12,000 00	By hire of horses, harness, carriages and horse-shoeing	$1,872 29
		" lime and carbolic acid for disinfectants	471 50
		" disinfecting	1,548 32
		" car fare	143 05
		" printing and stationery	509 62
		" coffins for city	767 00
		" salary of extra force	810 12
		" rent of Philpot street	144 00
		" care of city patients	209 64
		" antitoxin and syringes	1,083 90
		" vaccine virus	776 53
		" expenses of morgue	249 44
		" " " old quarantine	728 00
		" " " laboratories	533 13
		" C. & P. Telephone Co.	475 05
		" subscriptions and advertisements	243 84
		" repairs to wagons and carriages	133 05
		" postage stamps and cards	533 97
		" expenses on water sheds	136 49
		" digging trenches	75 00
		" sundry bills	756 06
	$12,000 00		$12,000 00

TABLE XII.

SALARY ACCOUNT CITY ANNEX FOR 1898. APPROPRIATION, $3,800.

	Dr.		*Cr.*
To 12 warrants on Comptroller	$3,799 80	By voucher No. 2	$266 64
		" " " 34	266 64
		" " " 74	416 68
		" " " 120	266 64
		" " " 161	266 64
		" " " 196	416 64
		" " " 238	266 68
		" " " 278	266 64
		" " " 347	416 64
		" " " 399	266 64
		" " " 461	266 68
		" " " 502	416 64
			$3,799 80
To unexpended balance	20	By unexpended balance	20
	$3,800 00		$3,800 00

TABLE XIII.

QUARANTINE HOSPITAL ACCOUNT FOR 1898. APPROPRIATION, $20,000.

Dr.		*Cr.*	
To 140 vouchers on Comptroller	$20,000 00	By Salaries	$11,723 00
		" Tug hire	4,121 00
		" Engineer's supplies	412 88
		" Repairs to tug *Hygeia*	417 56
		" Hospital supplies	120 04
		" Ice for hospital	164 00
		" Medicines	107 23
		" Market supplies	1,114 50
		" Coal for *Hygeia*	656 03
		" Repairs to hospital roof	25 00
		" Groceries	765 37
		" Farming implements and seed	65 48
		" Feed	131 35
		" Repairs to small boats	31 63
		" Sundry small bills	144 93
	$20,000 00		$20,000 00

TABLE XIV.

Statements of Appropriations to, Expenditures by and Unexpended Balances of the Health Department for the Year 1898.

Appropriations.	
Salaries	$45,660 00
General health	12,000 00
Quarantine Hospital	20,000 00
Salaries, City (Annex)	3,800 00
Expenditures.	
Salaries	45,452 03
General health	12,000 00
Quarantine Hospital	20,000 00
Salaries, City (Annex)	3,799 80
Unexpended Balances.	
Salaries	207 97
Salaries, City (Annex)	20
Received from sale of Formaldehyde	2 10
" " " antitoxin	12 45
" " " transcripts of births and deaths	41 00
" " insane patients from April 1, 1898, to December 31, 1898	2,348 90

TABLE No. XV.

TRANSCRIPTS FROM THE BIRTHS AND DEATHS FOR THE YEAR ENDING DECEMBER 31, 1898.

From the Record of Deaths.

For pension claims	282
For life insurance claims	496
To prove death	186
To be sent to foreign countries	27
Total	991

From Record of Births.

For life insurance claims	116
To be sent to foreign countries	7
For legal purposes	49
Total	172

ALBERT K. HADEL, M. D.,

Secretary of the Board of Health.

SPECIAL TABLE.

To Show the Number of Diphtheria Cases (Including Croup) Occurring Each Month, and the Number of Deaths from the Same During 1897 and 1898.

Year.	Cases.													
	Jan.	Feb.	Mar.	April	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	T'ls.	
1897	119	88	88	71	66	55	37	46	89	247	330	384	1,620	.....
1898	231	159	102	86	71	99	106	153	262	284	322	202	2,077	.....
	Deaths.													Per Cent.
1897	46	17	23	23	17	17	8	23	25	60	55	46	360	22.22
1898	32	31	28	21	14	27	40	22	46	52	61	37	412	19.83

REPORT

—OF THE—

Assistant Commissioner of Health.

REPORT.

BALTIMORE, MD., January 2, 1899.

C. Hampson Jones, M. D.,
Commissioner of Health of the City of Baltimore:

DEAR SIR: I have the honor to report to you the following, with the accompanying tables, showing work done by the Health Department for the year ending December 31, 1898:

The Sanitary Inspectors throughout the entire year have performed their duties thoroughly, efficiently and with great credit to themselves as well as to the department. The table indicating services rendered by them will show that forty thousand five hundred and seventy-five notices to abate nuisances have been issued, an increase of twenty thousand six hundred and sixty-three over last year, and that one thousand five hundred and forty-five bacteriological cultures were made by them.

It gives me great pleasure to state in compliment to them, considering the fact that the number of Sanitary Inspectors has been limited for the amount of work to be done, that the manner in which they have constantly striven to accomplish their varied tasks and the great amount of good done by them to promote and to protect the public health has been wonderful, and far surpasses that which has ever before been accomplished by this department.

By the order and directions of the department sixty-four steamships have been examined and eleven thousand four hundred and sixty-nine mattresses have been taken from them and burned, and four hundred and fifteen cart-loads of refuse, etc., have been removed from steamships and destroyed.

The disinfectors have worked hard and faithfully during the whole year, and are worthy of the commendation of all our citizens for the satisfactory manner in which they have done their duty.

Two thousand four hundred and ten premises have been disinfected, showing an increase of one thousand four hundred and seventy-five as compared with the preceding year, and of one thousand six hundred and eighty-one over the year of 1896.

This magnificent work of the small number of disinfectors for the year just closed is unparalleled in the history of the Health Department.

The vaccine physicians' work, as given in detail in a table annexed, will show that thirty-two thousand eight hundred and four calls were made, and eleven thousand eight hundred and seventeen vaccinations.

The thanks of the Health Department and of the public generally are due the vaccine physicians for the prompt manner in which they have responded to the requests of the department to attend the poor and to administer antitoxin to those suffering with diphtheria, who, in the opinion of the Board of Health, are deserving of the city's charity.

The Inspector of Meats deserves great credit for the faithful and competent manner in which he has steadily looked after the various stores, market places, abattoirs, etc., where he has examined the different kinds of meat daily which is sold for the consumption of our citizens. Ten thousand one hundred and sixty inspections were made, and one hundred and ten thousand and three pounds of meat found unfit for use, condemned and destroyed. This is a remarkable amount of work to be done in one year by one man.

Four thousand two hundred and eighty-three cows were examined, seven hundred and fifty-three cow stables were inspected, and one thousand one hundred and eighteen notices to abate nuisances issued by the Inspector of Cow Stables.

One thousand two hundred and fifty-five bakeries have been inspected, one hundred and thirty-one ordered cleaned, and one hundred and thirty-three nuisances inspected and ordered abated by the Inspector of Bakeries.

The greatest nuisance which the department still has to contend with is the badly-constructed and imperfectly-cleaned cess-pool or privy well, and not until the taxpayers of our city become con-

vinced of the necessity of a complete system of sewerage and demand the enactment of a law authorizing its construction, regardless of cost, will we ever hope to attain to a sanitary condition that may prevent the contraction and spread of zymotic and contagious diseasas. I therefore declare that, in my judgment, a thorough system of sewerage is an absolute necessity, and that measures to effect it ought not longer be delayed.

Attention is again called to the many alleys, paved and unpaved, which are in an unsanitary condition, and with which this department has to contend. For recommendations and suggestions as to the remedy of these alley nuisances I refer to my report of the year 1897.

The crowded condition of our public schools still continues to be a cause for much anxiety for the health of our children. In my report of 1897 I made some suggestions as to how the school buildings might be enlarged, improved, etc., to better protect the health of the children, to which I take pleasure in referring.

Every member of this department is to be congratulated upon the gentlemanly manner of his performance of duty. Singularly difficult and trying have been many of their tasks, but with good judgment and the exercise of patience and forbearance they have avoided friction and ill-feeling and acquitted themselves with credit.

The thanks of this department are due to the Police Department for its valuable assistance in enforcing the laws.

I desire to express my thanks and gratitude to all connected with this department for their courtesy to me during the past year. And thanking you personally for your kindness, I am

Very respectfully your humble servant,

J. TYLER SMITH, M.D.,

Assistant Commissioner of Health.

TABLES.

TABLE A.

REPORT OF INSPECTIONS OF NUISANCES MADE AND ORDERED ABATED BY SANITARY INSPECTORS DURING THE YEAR 1898.

Number of Alleys to be cleaned	584
" " " repaired	389
" " " paved	325
" Premises to be cleaned	175
" Vacant lots to be drained, filled and cleaned	168
" Manure pits to be constructed	107
" " " " reconstructed and repaired	54
" " " " cleaned	517
" Drain-pipes to be reconstructed and repaired	99
" " " cleaned	31
" " " laid	8
Defective Plumbing ordered reconstructed and repaired	76
Number of Yards to be cleaned	388
" " " drained	124
" " " repaired	134
" " " paved	62
" Privies inspected and ordered cleaned	26,565
" " to be reconstructed	354
" " " ventilated	53
" Water-closets to be repaired and ventilated	51
" Excavating apparatuses inspected	23
" Cellars to be drained and filled	470
" " " cleaned	110
" Slaughter-houses inspected	30
" Stables to be reconstructed and cleaned	131
" Water-pipes and hydrants to be repaired	92
" Gutters to be repaired	178
" Rain-spouts to be reconstructed	66
" Grass and weeds to be removed from gutters	316
" Ice-ponds examined and permits granted	11
" " " " " refused	5
" Tenements ordered cleaned and white-washed	39
" Samples of water collected for analysis	103
" Causes of death examined	....
" Steamships examined	64
" Mattresses destroyed from steamships	11,469
" Cart loads of refuse, etc., removed from steamships and destroyed	415
" Sweat shops examined	2
" Complaints examined and no nuisance found to exist	632
" Miscellaneous and extra examinations made	1,135
" Premises disinfected	2,410
" Bacteriological cultures made	1,545
" Schools examined	15
" Meat inspected	10,160
" Pounds of meat condemned	110,003
" Inspections of cow stables	753

Number of Cows inspected	1,283
" Bakeries ordered cleaned	131
" " inspected	1,255
" Milk inspections made, lots	32,606
" " " " gallons	979,023
" " condemned, lots	846
" " " gallons	1,487
" Legal proceedings instituted for non-compliance with notices	23

CONTAGIOUS DISEASES INSPECTED.

Number of cases of Diphtheria	2,097
" " Scarlatina	623
" " Membranous Croup	134
" " Whooping Cough	355
" " Mumps	38
" " Chicken Pox	138
" " Typhoid Fever	616
" " Varioloid	....
" " Yellow Fever	....
" " Cholera	...
" " Cerebro-spinal Meningitis	3
" " Measels	1,380
" " Ophthalmia Neon	6

TABLE B.—Report of Vaccine Physicians for the Year Ending December 31, 1898.

Wards.	Physicians.	Offices or Residences.	Number of Calls.	Number of Vaccinations.	Primary.	Secondary.	Successful.	Failed.	Not Heard From.	Males.	Females.	White.	Colored.	Revaccinations.	Certificates of Vaccinations Given.
1	Chas. S. Neer, M. D.	619 S. Patterson P'k ave.	922	720	628	92	45	15	660	362	368	707	13	..	848
2	Gustave Goldman.	2005 Eastern ave.....	1,210	771	730	41	733	2	36	391	380	647	124	..	708
3	C. F. Blake.....	1503 E. Baltimore st.....	1,229	260	243	17	133	8	119	122	138	204	56	..	215
4	M. Savage.....	6 S. Exeter st.....	1,911	691	669	22	475	21	195	362	329	663	28	..	509
5	H. M. Cohen.....	407 Aisquith st.....	806	297	244	53	52	1	241	137	160	170	127	..	117
6	S. T. Roeder.....	1904 E. Fayette st.....	1,812	781	699	82	352	30	399	409	371	645	136	..	588
7	Geo. W. Mitchell..	913 N. Broadway.....	1,663	747	603	144	90	11	646	377	370	586	161	..	819
8	H. G. Beck.....	829 E. Chase st.....	2,016	425	403	12	353	19	53	235	190	333	84	..	994
9	C. W. Hartwig....	111 W. Saratoga st.....	1,914	373	258	115	324	15	34	109	264	215	158	..	123
10	Robt. J. Murray..	302 N. Fremont ave.....	2,003	583	576	7	351	..	232	207	376	146	437	..	661
11	E. L. Yourex.....	1138 Druid Hill ave.....	2,521	586	362	214	246	51	279	260	317	85	501	..	369
12	E. C. Bubert.....	2025 Druid Hill ave.....	2,178	465	375	90	293	41	131	235	230	250	215	..	151
13	Chas. W. McElfresh	834 W. Lombard st.....	754	259	212	47	144	17	98	373	381	495	259	..	355
14	Jno. G. Jeffers....	1143 W. Franklin st.....	1,063	271	269	2	97	50	118	122	149	212	59	..	200
15	Chas. F. Pfeffer...	48 E. Montgomery st....	859	322	320	2	45	.....	.....	138	84	202	120	..	497
16	C. L. Nuckols.....	519 S. Paca st.....	1,490	552	526	26	386	18	148	264	288	282	270	..	452
17	C. P. Strauss.....	1606 Light st.....	1,915	894	830	64	404	29	451	382	512	864	30	..	1,074
18	Harry E. Knipp..	523 Scott st.....	1,632	733	593	140	185	15	516	300	433	683	50	..	679
19	C. C. Richardson..	1616 Edmondson ave....	1,453	535	337	198	137	28	288	231	301	367	168	..	214
20	Geo. C. Shannon..	1442 Presstman st.....	1,130	461	246	215	31	6	424	211	250	248	213	..	452
21	J. Burch Joyce....	2526 W. Baltimore st....	1,269	496	353	43	44	..	452	242	254	330	166	..	175
22	W. S. Carswell....	2 E. Huntington ave....	954	405	370	35	256	20	118	166	239	338	67	..	376
			32,804	11,817	9,846	1,681	5,186	400	5,638	5,638	6,384	8,672	3,542	..	10,566

REPORT OF THE CHEMIST.

REPORT UPON THE CHEMICAL LABORATORY OF THE HEALTH DEPARTMENT FOR THE FISCAL YEAR ENDING DECEMBER 31, 1898.

Dr. C. Hampson Jones, Commissioner of Health:

DEAR SIR: On the 1st of January, 1898, the Chemical Laboratory of the Health Department entered upon the third year of its existence. With all new institutions time is required to fully develop their utmost usefulness, and, what is more, they need a leading spirit in the right direction to accomplish this end. Permit me to thank you for the assistance which you have accorded me in the accomplishment of my work; the regulations and rules which you have instituted and which enabled me to perform my duties unmolested by visitors and others, who, before you took charge of the Health Department, made the Chemical Laboratory their rendezvous and hampered your chemist in the performance of his duties. Although the activity of the Health Department under your administration is unparalleled compared with previous years, yet the harmony which existed in every branch of the department stimulated each and every one to do his share, and thus facilitate his own work as well as that of his fellow-worker.

Following I respectfully submit a condensed report of the work performed at the Chemical Laboratory during the year 1898.

I.—MILK.

1.—*Work Accomplished.*

During 1898 the two milk inspectors, under the supervision of your chemist, examined 32,606 lots of milk (see Table No. 1), aggregating 979,023 gallons, and 846 lots of adulterated milk, with a total of 4,487 gallons, were destroyed. During 1897, 26,522 lots,

aggregating 453,489 gallons, were examined. The figures show that with the same force (two inspectors) more than double the amount of work has been accomplished during 1898 as compared with 1897, and it is but just here to mention that it is only by the hardest work and diligence on the part of the two inspectors that the above result has been reached. Most of the milk consumed in Baltimore comes to the city by rail, and is delivered at six depots: Calvert, Hillen, Camden, President, Fulton and North Avenue Stations. To establish a better control for the inspection of milk, from the hundreds of dairy-delivery wagons during the day, the city is sub-divided into four districts: Northeastern, southeastern, northwestern, southwestern—taking Baltimore street and Charles street for the dividing lines. The six depots and four districts give us ten separate fields of operations, and since the four districts cover very large areas it is obvious that the chemist, with his two inspectors, is unable to reach the same field of operation more than once or twice a week. Besides, the milk trains reach the several depots at an early morning hour, and very nearly all the milk is delivered to our people by the dealers between the hours of 6 a.m. and 1 p.m., except in mid-summer. During these hours most of the work has to be accomplished, and the largest part of this unquestionably, most important article of food, escapes inspection.

2.—*Quality of Milk.*

During 1898, 846 lots of adulterated milk, summing up 4,487 gallons were condemned and spilled. Since the total milk examinations for the year amounted to 979,023 gallons, this is less than half of one per cent. of the milk examined, and in itself shows an improvement over the figures for 1897. Yet the average of the analyses of forty-eight samples of milk made, for a matter of comparison of what may be considered marketable, unadulterated milk gave only 13.75 total solids and 3.97 per cent. of butter-fat (see Table No. 2), which is considerable below the figures of the same table for 1897. Judging from this fact, and from observations made by the inspectors and your chemist during the present year, I have reason to believe that quite a number of dealers have adopted the

use of the lactometer and, keeping within the limit of the provisions of the city ordinance (12 per cent. of total solids and 3 per cent. of butter-fat), adulterate the milk by adding certain quantities of water. That this "watering of milk," upon which evil I have dwelt in former reports, is still practiced to a very large extent there is no doubt, and the only effective remedy would be by raising the standard of what constitutes good, unadulterated milk by city ordinance from 12 per cent. to 13 per cent. total solids, and from 3 per cent. to 3½ per cent. or 4 per cent. of butter-fat. The present standard in our city is lower than in most other cities where the sale of milk is regulated by law

3.—*Impure and Adulterated Milk.*

Besides this much-practiced watering and skimming of milk, mentioned above, the usual amount of milk has been condemned and spilled for other causes—bloody milk, dirty, churned or sour milk; milk sent to market in filthy cans, artificially colored milk, and milk which contained preservatives. The adding of preservatives, which is confined to the hot weather, is only practiced for the purpose of prolonging the keeping qualities of the milk and the detection of the chemical used is always a matter of a delicate chemical analysis. The inspector, whilst examining milk, either at a depot or from a wagon on the street, is unable to detect whether the milk contains a preservative or not. In either case he cannot condemn the milk on a mere suspicion that a preservative may have been added. Yet quite a number of samples taken from milk thus suspected have been examined at the laboratory, and, except in a very few instances, with negative results. In the few instances mentioned a minute quantity of Formaldehyde (Freezine) had been added to the milk.

4.—*Microscopic and Bacteriological Examination.*

The usual attention has been paid to the microscopic and bacteriological examination of milk for the presence of pus, colostrum, bacillus tuberculosis, etc. As far as the presence of pus is concerned, my investigations again confirm what I stated

in my report for 1897. Pus—often only a few pus cells—was present in every sample of milk examined except two. The bacillus tuberculosis has not been found in any of the samples subjected to examination.

5.—*Arrests.*

Only one arrest under the ordinance regulating the sale of milk in the City of Baltimore was made during 1898. In this case the analysis of the milk in the churn of the milkman showed only 8.22 per cent. of total solids and 1.85 per cent. of butter fat, which indicated that he had added about 45 per cent. of water to the milk offered for sale. The man was promptly pronounced "not guilty" before a police court. Discouraged by this, no further arrests were attempted. I have been told that in the City of Boston the expenses of maintaining the chemical laboratory of the Health Department are very nearly covered by the fines collected for violations of the milk ordinance.

II.—Water.

1.—*Quality of the Water Supply.*

As during 1897, the city water supply has been systematically dealt with by making weekly analyses of samples procured by me at different parts of the city, (see Table No. 3, condensed.) Besides, quite a number of analyses have been made of hydrant water from samples procured by your inspectors on complaint of citizens in various parts of Baltimore. Comparing the average figures for 1898 with the figures for 1897, you will not be surprised to find that our water supply is not as good as it has been. But what is more alarming is the fact that in nine instances the presence of traces of nitrites have been proven by chemical analysis. Since we know that the presence of nitrites in water absolutely establishes the presence of intestinal pollution, this matter presents a serious aspect. For a city as large as Baltimore, supplied with surface water, and surrounded by thickly-settled suburbs, to keep its water-sheds absolutely free from pollution is a very difficult problem to solve, and the danger of intestinal pollution and a subsequent increase of typhoid fever becomes more and more apparent.

2.—*Pumps, Wells and Springs.*

Perhaps very few people in Baltimore realize the dangerous consequences arising from the drinking of polluted water. Water is an absolute necessity, as much as milk and food, and it is needless to say that all manner of diseases are inoculated into our system by the domestic use of water from contaminated pumps, wells and springs. Your warfare against this foe has kept me busy analyzing samples delivered to me by the sanitary inspectors. I cannot here go into details, and will only enumerate what has been done during 1898.

Pumps and wells analyzed	132
Found polluted and closed	23
Springs analyzed	6
Found polluted and closed	2

All the springs and pumps in Druid Hill Park have been carefully analyzed (see Table No. 4), and several of the pumps have been closed, the water being found to be polluted. The condition of "Silver Spring," the water from which was, according to the first analysis, considered unfit for drinking has been fully investigated, and a subsequent analysis showed that the water is now good and pure. This spring, which had been closed for a time, is now restored to the people. The pumps and springs at Clifton Park have also been attended to (see Table No. 5). A great deal of work remains to be done in dealing with the pumps, springs and wells inside the new city limits. There are hundreds of pumps and wells in the annex which have not had our attention. Your desire to deal speedily and systematically with this matter has prompted you to invite the police department to furnish you with a complete list of all the pumps, wells and springs in use in the Annex. This list is now in my hands, and comprises 292 pumps, wells and springs, but I hope to be able to accomplish this task during 1899.

3.—*Streams, Ponds, Etc.*

During January, 1898, fourteen analyses of samples of ice from ponds within the city limits, we made in order to satisfy the Health Department that the ice was free from pollution, and permits for

cutting such ice were only given after this fact was established. At the instance of Major Kenly, analyses were made of twelve samples of water forwarded to me in sealed demijohns.

Analyses were also made of samples of the Chemung river water, which supplies the filtration plant at Elmira, N. Y., and of water used by the City of Elmira after filtration. Also samples from the Brandywine river, supplying the filtration plant at Wilmington, Del., and of the filtered water from this plant.

Several hundred examinations were made of samples of water accumulating in cellars of houses, and brought to me by the Sanitary Inspectors, to find whether such water was polluted by communication with privy wells or sinks.

III.—Miscellaneous Analyses.

The miscellaneous work comprises the usual amount of matter, such as food products: Meats, fish, butter, candies, flour, etc. Paints, oils and solder used by the several city departments were examined to find whether these articles fulfilled the requirements of the specifications.

During 1898, on three different occasions, baskets of provisions, comprising tea, coffee, sugar, salt, syrup, yeast powder, canned goods, steak, chops, ham, crackers, fruit and candy, were examined to ascertain whether these articles contained any poisonous substance introduced with criminal intent. Also a lot of sour-krout, which was supposed to have made the people who ate it ill. In no case was the presence of poison established.

I remain yours very respectfully,

G. W. LEHMANN,

Chemist to the Board of Health.

TABLES.

TABLE No. 1.

Total Amount of Milk Examined and Spilled.

1898.	Examined.		Spilled.	
	Lots.	Gallons.	Lots.	Gallons.
January	2,400	42,742	38	206
February	1,908	34,841	14	71
March	2,301	48,648	40	220
April	2,459	64,531	69	328
May	2,889	80,913	84	412
June	2,858	90,558	71	346
July	2,913	96,353	95	450
August	2,610	87,992	45	220
September	3,162	109,901	72	364
October	3,482	120,027	103	634
November	2,790	92,031	103	652
December	2,834	110,486	112	584
	32,606	979,023	846	4,487

TABLE No. 2.

Analyses of 48 Samples of Milk from Railroad Stations or Delivery Wagons Considered Good Unadulterated Milk.

1898.	Total Solids.	Fat.	1898.	Total Solids.	Fat.
January	14.25	4.06	July	13.13	3.60
"	14.60	4.14	"	13.78	3.64
"	13.58	3.92	"	12.73	3.19
"	13.91	3.68	"	12.28	3.61
February	15.28	5.03	August	14.29	4.08
"	14.14	3.81	"	13.21	3.59
"	15.06	5.21	"	12.80	3.50
"	14.50	3.50	"	12.90	3.74
March	14.21	4.18	September	12.31	3.46
"	14.36	4.40	"	14.84	4.28
"	14.71	3.88	"	14.20	4.10
"	13.23	3.41	"	13.19	3.75
April	12.80	3.16	October	13.68	4.04
"	13.56	3.82	"	12.72	3.18
"	13.29	3.96	"	13.18	4.18
"	15.14	5.17	"	12.92	3.68
May	14.00	4.48	November	13.44	4.00
"	12.68	3.28	"	13.19	3.78
"	12.92	3.70	"	13.81	3.78
"	13.34	4.05	"	14.63	4.11
June	14.46	4.90	December	14.60	4.30
"	14.60	4.13	"	14.22	4.34
"	12.77	3.26	"	13.31	3.88
"	16.07	5.02	"	12.96	3.71
Average				13.75	3.97

TABLE No. 3.

Monthly Averages, Analyses City Water Supply. Figures expressed in parts per million.

1898.	Volatile Solids.	Mineral Solids.	Total Solids.	Chlorine.	Free Ammonia.	Albumenoid Ammonia.	Nitrates.	Nitrites.
January	47	49	96	6.28	0.09	0.11	0.34	0.00
February	50	54	104	7.48	0.10	0.14	0.71	Trace.
March	54	55	109	6.19	0.11	0.13	0.90	Trace.
April	64	61	125	8.08	0.17	0.22	0.74	Trace.
May	56	51	107	8.00	0.10	0.15	0.85	Trace.
June	42	49	91	7.64	0.07	0.11	0.60	Trace.
July	60	53	113	5.69	0.10	0.10	0.45	0.00
August	49	49	98	5.23	0.05	0.10	0.60	0.00
September	53	46	99	5.24	0.05	0.12	0.61	Trace.
October	50	47	97	6.10	0.06	0.10	0.60	0.00
November	48	49	97	6.14	0.10	0.10	0.70	Trace.
December	44	41	85	5.71	0.09	0.09	0.55	0.00
Average for year	56	50	106	6.51	0.09	0.12	0.64	Trace.

TABLE No. 4.

Analyses of Pumps, Wells and Springs in Druid Hill Park. Figures Expressed in Parts Per Million.

Druid Hill Park.	Color.	Odor.	Reaction.	Matter in Suspension.	Total Residue 230° F.	Volatile Residue.	Ignited Residue.	Chlorine.	Free Ammonia.	Albumenoid Ammonia.	Nitrates.	Nitrites.	Sulphates as SO_3.	Required Oxygen.	Hardness.	Character of Water.
Pump No. 1	Clear	None	Acid	0.00	348	260	88	54.06	0.00	0.12	9.44	0.00	0.85	2.50	90.42	Polluted.
" " 2	Murky	None	Neutral	44.20	118	54	64	13.64	0.18	0.35	0.58	0.00	4.50	0.54	45.21	Polluted.
" " 3	Murky	None	Neutral	16.80	132	62	70	2.95	0.09	0.24	0.60	trace.	0.00	0.58	58.91	Polluted.
" " 4	Cloudy	Sulphate hydrogen.	Neutral	26.12	88	20	68	2.56	0.03	0.06	2.28	0.00	0.16	0.95	39.73	Good.
" " 5	Murky	None	Neutral	36.80	108	46	62	2.86	0.11	0.05	0.38	0.00	0.00	0.56	42.47	Suspicious.
" " 6	Clear	None	Neutral	0.00	62	26	36	2.11	0.02	0.38	0.40	0.03	0.00	1.81	42.20	Polluted.
" " 7	Clear	None	Neutral	19.65	146	40	106	3.24	0.02	0.08	0.22	0.00	0.00	0.74	61.65	Good.
" " 8	Clear	None	Slightly acid	0.00	262	156	106	38.16	0.04	0.15	15.25	0.00	0.90	0.61	76.72	Polluted.
" " 9	Dirty	Musty	Neutral	61.12	134	92	42	9.51	0.00	0.12	0.14	0.00	0.00	5.35	86.31	Not good in present condition.
" " 10	Dirty	Foul	Neutral	91.10	182	58	124	3.89	0.00	0.35	0.92	0.00	0.00	11.52	126.04	Polluted.
" " 11	Clear	None	Neutral	0.00	156	68	88	3.21	0.00	0.06	0.70	0.00	2.14	0.47	78.83	Good.
" " 12	Clear	None	Neutral	0.00	186	70	116	6.75	0.04	0.12	1.10	0.00	3.15	0.86	93.16	Good.
" " 13	Slightly murky	None	Neutral	21.00	214	80	134	5.40	0.00	0.12	0.20	0.00	0.10	0.95	89.70	Good.
" " 14	Clear	None	Neutral	0.00	128	50	78	4.31	0.00	0.09	0.05	0.00	0.00	0.65	41.40	Good.
Edmund's Well	Clear	None	Neutral	0.00	134	44	90	1.26	0.00	0.00	0.14	0.00	2.28	0.22	58.91	Very good.
[illegible] Spring	Clear	None	Acid	0.00	298	216	82	75.20	0.00	0.09	1.85	0.00	5.60	3.58	99.01	Good.
Mountain Pass Spring	Clear	None	Neutral	0.00	114	43	71	3.55	0.02	0.03	0.16	0.00	0.00	0.46	43.84	Good.
[illegible]'s Fountain	Clear	None	Neutral	0.00	106	44	62	2.84	0.00	0.02	0.34	0.00	0.00	0.14	56.70	Very good.

TABLE No. 5.

Analyses of Pumps and Springs in Clifton Park. Figures expressed in parts per million.

Clifton Park.	Color.	Odor.	Reaction.	Matter in Suspension.	Total Solids 230° F.	Volatile Residue.	Ignited Residue.	Chlorine.	Free Ammonia.	Albuminoid Ammonia.	Nitrates.	Nitrites.	Sulphates as SO_3.	Required Oxygen.	Hardness.	Character.
Pump, Golf Links	Murky	Musty	Neutral	18.50	162	92	70	4.85	1.28	2.64	0.22	0.00	0.00	3.38	68.17	Polluted.
Spring, gardener's house	Clear.	None	Neutral	0.00	66	32	34	4.65	0.00	0.00	3.95	0.00	0.00	0.12	43.16	Very good.
Spring, Washington st.	Clear.	None	Neutral	0.00	97	59	38	11.64	0.00	0.02	4.16	0.00	0.00	0.22	67.14	Good.
Pump at stable	Clear.	None	Neutral	0.00	96	74	22	9.78	0.11	0.15	8.25	0.10	0.00	0.70	59.09	Polluted
Pump, Mansion House	Clear.	None	Neutral	0.00	44	20	24	5.05	0.02	0.06	0.62	0.00	0.11	0.42	31.74	Good.

REPORT

—UPON THE—

BACTERIOLOGICAL LABORATORY.

REPORT UPON THE BACTERIOLOGICAL LABORATORY FOR THE YEAR ENDING DECEMBER 31, 1898.

Dr. C. Hampson Jones, Commissioner of Health:

DEAR SIR: I hereby respectfully submit my report upon the Bacteriological Laboratory of the Health Department of Baltimore for the year ending December 31, 1898.

BACTERIOLOGICAL EXAMINATION OF THE WATER SUPPLY.

The general plan which has been pursued has consisted in the routine examination of the water from the laboratory tap in order to estimate the number of bacteria present in one cubic centimeter of water. The plates were made in glycerine-agar prepared according to Fuller's directions, and the colonies were counted with a small hand lens and the Lafar counter.

TABLE No. 1.

Bacteria Per C. C. in the Baltimore City Water for 1898.

February	2	237
"	4	341
"	7	269
"	9	306
"	11	350
"	14	170
"	17	208
"	22	212
"	24	205
"	26	301
Monthly Average		259.9
March	1	286
"	3	254
"	5	210
"	7	203
"	10	245
"	12	308
"	16	298
"	22	198
"	24	501
"	26	608
"	30	738
Monthly average		320.7
April	2	255
"	3	410
"	4	608
"	8	521
"	11	280
"	13	271
"	18	342
"	21	289
"	23	392
"	25	...
"	27	242
"	29	251
Monthly average		351
June	1	106
"	3	231
"	5	106
"	7	206
"	9	237
"	15	104
"	18	181
"	21	246
"	25	273
"	27	432
"	29	304
Monthly average		220.6
July	1	641
"	3	273
"	7	343
"	9	347
"	12	403
"	14	241
"	16	700
"	20	536
"	23	301
"	25	217
"	27	403
"	29	297
Monthly average		391.8
August	1	403
"	3	604
"	5	206
"	7	109
"	9	516
"	11	403
"	15	660
"	17	702
"	19	439
"	25	516
"	28	641
Monthly average		472.7
October	1	660
"	15	432
Monthly average		546
November		281
Monthly average		281
December	19	203
"	31	128
Monthly average		165.1

February	259.9
March	320.7
April	351
June	220.6
July	391.8
August	472.7
October	546
November	281
December	165.1
Yearly average	334.3

GENERAL WATER SUPPLY.

A certain number of examinations have been made in order to secure information concerning the general water supply. For this purpose specimens have been collected from the laboratory tap, various wells throughout the city, and a number of streams on the water shed. The public pumps of the various city parks were also examined, and those found unfit for use were condemned. In all of these samples the number of bacteria in one cubic centimeter (15 drops) was first determined, and the various tests for the detection of the colon or intestinal bacillus was then carried out. Theobald Smith has shown that this organism will cause a typical series of phenomena when present in fermentation tubes containing 2 per cent. glucose, lactose and saccharose bouillon. These might be represented by the following formula:

FORMULA.

In glucose and lactose bouillon about fifty per cent. of gas is formed in the closed branch of the fermentation tube in three or four days. This gas consists of one part of CO_2 to two parts of H. The medium is always acid.

In saccharose bouillon, either no gas is formed, or the gas only forms slowly, from twenty-five per cent. to fifty per cent. of gas forming in about a week. The proportion of CO_2 to H. varies and the reaction may be either acid or alkaline.

In searching for this organism in deep well water or in specimens of surface water where the contamination is apt to be in a concentrated form, it is simply necessary to inoculate a glucose bouillon fermenation tube with about 0.5 of a cubic centimeter of the water. If any fermentation takes place in 48 hours a plate culture is then prepared in lactose-agar containing litmus. (Wurtz method). Large moist colonies which turn slightly red can then be selected, and if these be the colon bacillus they will carry out its characteristic fermentation forumla with the three sugars and also cause its well known reactions in the other forms of culture media.

In searching for tbe presence of the bacillus coli communis in water secured from the taps in various districts of the city, in addi-

tion to adding from 0.5–1.0 cc. to fermentation tubes, 50 cubic centimeters of water were added to an equal quantity of concentrated or the usual nutrient bouillon, and after twenty-four hours at 35° C plate cultures were made from the cloudy fluid.

There are a number of other bacteria of fermentation to be found in the Baltimore drinking water, and unless pure cultures of fermenting organisms are obtained and the pure culture inoculated into the three fermentation tubes, containing 2 per cent. glucose, lactose and saccharose bouillon, these organisms might be easily confused with the bacillus coli communis or colon bacillus.

The fermentation formula of the colon bacillus might be represented by the following formula:

FERMENTATION FORMULA OF THE COLON BACILLUS.

Glucose bouillon.—Gas—First day, 30 per cent.; second, 10 per cent.; third, 10 per cent. Total, 50 per cent.

Reaction.—Acid—CO_2, 1 part; H, 2 parts.

Lactose.—The same as above.

Saccharose bouillon.—Gas—First day, 10 per cent.; second, 10 per cent.; third, 10 per cent. Total gas production in 3–5 days, 30–40 per cent.; or total gas production in 3–5 days, 0 per cent.

Reaction.—Acid or alkaline—CO_2 & H, variable.

A frequent organism to be found in the drinking water is the bacillus cloacae. This is characterized by its rapid fermentation of glucose and saccharose bouillon and its slow fermentation of lactose bouillon. Its fermentation formula is usually as follows:

FERMENTATION FORMULA OF BACILLUS CLOACAE.

Glucose bouillon.—Gas—First day, 50 per cent.; second day, 50 per cent. Total, 100 per cent.

Reaction.—Acid—CO_2, 1 part; H, 1 part.

Lactose bouillon.—First day, 20 per cent.; second day, 10 per cent. Total, 10 per cent. to 50 per cent.

Acid.—CO_2, 1; H, 2 parts.

Saccharose bouillon.—Gas—First day, 30 per cent.; second, 60 per cent. Total, 90 per cent.

Reaction.—Acid or alkaline—CO_2, 1; H, 1 part.

Another organism causing slight fermentation of glucose and lactose bouillon is represented below, and was a short bacillus.

Glucose bouillon.—Gas—First day, 10 per cent.; second, 5 per cent. Total, 15 per cent.

Reaction.—Acid—CO_2, 1; H, 2.

Lactose bouillon.—Gas—First day, 10 per cent.; second, 2 per cent.; third, 2 per cent. Total 14 per cent.

Reaction.—Acid—CO_2, 1 part; H, 2.

Saccharose bouillon.—No fermentation.

A fermenting bacillus, which caused rapid gas production in all three sugars, was as follows:

FORMULA.

Glucose bouillon.—Gas—First day, 50 per cent.; second, 40 per cent. Total, 90 per cent.

Reaction.—Neutral—CO_2, 2 parts; H, 1 part.

Lactose bouillon.—First day, 50 per cent.; second day, 50 per cent. Total, 100 per cent.

Neutral.—CO_2, 1.5 parts; H, 1 part.

Saccharose bouillon.—Gas—First day, 40 per cent.; second, 55 per cent. Total, 95 per cent.

Reaction.—Acid—CO_2, 1; H, 1 part.

TABLE No. 2.

Complete Bacteriological Examinations of Water.

Tap, Stream or Well.	Date of Examination.	Colonies per c. c.	Colon Bacillus Present.	Condition.
City Tap	Feb. 24.	205	None in 50 c. c.	Good.
Stream at Lutherville emptying into City supply	Mar. 7.	31,020	Present in 1 c. c.	Bad.
Kennedy stream City supply	" 7.	6,347	None in 1 c. c.	"
Lake Roland, surface of lake	" 8.	258	None in 5 c. c.	Good.
Lake Roland, 30 feet under surface	" 8.	347	" "	"
Phoenix Dam, surface.	" 17.	234	" "	"
Phoenix Dam, 18 feet below surface	" 17.	557	" "	"
Ashland Dam, surface.	" 17.	1,528	" "	"
Ashland Dam, 15 feet below surface	" 17.	660	" "	"
Mouth of Gunpowder River, surface	Apr. 10.	24,726	" "	Suspicious.
Mouth of Gunpowder River, 18 feet below surface	" 10.	880	" "	Good.
City tap	" 11.	280	Present in 50 c. c.	Bad.
Surface, Lake Montibello	May 5.	784	None in 1 c. c.	Good.
Lake Montibello, 18 feet below	" 5.	1,144	" "	"
Warren Dam, surface.	" 13.		Present in 50 c. c.	Bad
Warren Dam, 18 feet below surface	" 13.	15,195	" "	"
Great Gunpowder River, below York road bridge, after one week's hard rain	" 13.	18,240	Present in 5 c. c.	"
Towson Run, on Swelt's property	May 21.		Present in $\frac{1}{2}$ c. c.	"
Towson Run, rear of Consolidated Railroad Co.	" 21.		Present in 5 c. c.	"
City Tap	June 1.	106	None in 50 c. c.	Good.
Head of Lake Roland.	" 8.	2,040	" "	"
Lake Roland (Hollins)	" 8.	2,730	Present in 5 c. c.	Bad.
Towson Branch Lake Station	" 8.	1,551	None in 5 c. c.	Good.
Peterson Run, below Christy property	" 10.	1,248	Present in $\frac{1}{2}$ c. c.	Bad.

TABLE No. 2.—Continued.

Complete Bacteriological Examinations of Water.

Tap, Stream or Well.	Date of Examination.	Colonies per c. c.	Colon Bacillus Present.	Condition.
East branch of same..	June 10.	1,016	Present in ½ c. c.	Bad.
Cromwell Run.	" 18.	1,568	None in 5 c. c.	Good.
Minebank Run, on Treadwell property.	" 18.	3,685	" "	Suspicious.
Towson Run, on Longnecker's property..	" 10.	6,448	" "	"
Hampden Run, on Ridgely property..	" 10.	12,408	" "	"
Towson Run, on Sheppard Asylum property...	" 18.	6,900	Present in ½ c. c.	Bad.
Towson Run, on Mayer property	" 18.	1,038	None in 5 c. c.	Good.
Southwest Branch of Towson Run, on Sheppard Asylum property	" 18.	10,368	" "	Bad.
Northwest Branch of Towson Run, on Baldwin property..	" 18.	2,976	" "	Fair.
Towson Run, on Enoch Pratt property.....	" 18.	2,193	" "	"
Orebank Run.....	" 24.	.....	" "	"
Ridgely Run.....	" 24.	.....	Present in ½ c. c.	Bad.
Sherwood Run, on N. C. R. R. property..	July 1.	5,206	None in 5 c. c.	Suspicious.
East Roland Run, on Golbert property...	" 1.	1,320	" "	Good.
Roland Run, on Gurner property	" 1.	7,860	Present in ½ c. c.	Bad.
Roland Run, below Ruxton.....	" 1.	15	None in 5 c. c.	Good.
North Roland Run, on Cockey property...	" 1.	2,070	" "	Fair.
Roland Run, on Mrs. M. Gobbert's property	" 1.	750	Present in ½ c. c.	Bad.
Gurner's Branch of Roland Run.....	" 1.	7,409	" "	"
Cockey's Run, at Cockeysville.....	" 16.	9,872	" "	"
Beaver Dam Run, at Cockeysville.	" 16.	3,360	B. Pyocyaneus in ½ c. c.	"
Beaver Dam Run, at Marble Works.....	" 16.	25,952	Present in ½ c. c.	"

TABLE No. 2.—Continued.

Complete Bacteriological Examinations of Water.

Tap, Stream or Well.	Date of Examination.	Colonies per c. c.	Colon Bacillus Present.	Condition.
Beaver Dam, at Ashland	July 16.	18,246	None in 5 c. c.	Bad.
Western Run, at Ashland	" 16.	4,064	Present in ½ c. c.	"
Western Run Branch, of Beaver Dam	" 16.	9,382	" "	"
Water below Scott Price property	Sept. 8.		None in 5 c. c.	Fair.
Water opposite Scott Price property	" 8.		Present in 5 c. c.	Bad.
Water above Scott Price property	" 8.		" "	"
Water above Yellott house	" 8.		None in 5 c. c.	Fair.
Water below Yellott house	" 8.		" "	"
Clinton Jessops	Oct. 5.		Present in 5 c. c.	Bad.
Yellott house	" 5.		" "	"
City Tap	Nov. 21.	281	None in 50 c. c.	Good.
" "	Dec. 12.	203	" 100 "	"
" "	" 31.	128	" 500 "	"

From the aforegoing it will be seen that the yearly average of bacteria in the drinking water for 1898 was 334.3, a slight increase as compared to that of 1897, when the average was 309.1 per cubic centimeter. The colon, or intestinal bacillus, was also demonstrated once in six examinations from water drawn from the city tap. This organism has also been found in a number of the lakes, rivers and smaller streams, which form the source of the city supply. The fact has been demonstrated for some time that such water-borne diseases as typhoid fever, Asiatic cholera, and probably the various inflammatory disorders of the intestines are most frequently caused by contaminated drinking water. Although a thorough method of inspection would probably lessen the risk of infection from such diseases, these conditions could be greatly diminished by a proper method of purification for the entire supply. A number of large cities have already solved this problem by means of filtration.

DIPHTHERIA.

In addition to the routine examinations for physicians a number of cultures have been made from the throats of children living in houses where diphtheria has existed. This has been rendered necessary by the city ordinance, which prevents the return of children to school who have been living in a house where diphtheria exists until the throat of every child in the house has been declared free from diphtheria. It has been well known for some time that the germ of diphtheria will remain in the throat from three to four weeks after all other signs of the disease disappear, and, of course, a convalescent from diphtheria should never be permitted to return to school until the culture from the throat has been declared free from diphtheria germs.

Recent work has also shown that it is necessary to examine the throats of all the children in a house where diphtheria has existed before they are allowed to return to school. This must be done because a certain number of children in these infected houses will be found to have virulent diphtheria germs in their throats. These germs, even when taken from healthy children, will often cause the

death of guinea pigs from experimental diphtheria, and they are capable of infecting other less-resistant persons with diphtheria. It is obvious, therefore, that where several children in a house are exposed to diphtheria one child may develop the disease, several other children will escape; but often one of these, although remaining healthy, may show a pure culture of the diphtheria germ in his throat. These cases of unsuspected bacteriological diphtheria are one of the most prolific causes of the spread of diphtheria, and it is of the utmost importance to examine every throat in an infected household before its inmates mix with the public and the children return to school.

His Honor the Mayor, and the Health Commissioner, having recognized the importance of this work, have appointed an Inspector of Throats, whose duty it is to take cultures from the inmates of houses in which diphtheria has existed. The house is not disinfected nor are the children allowed to return to school until all the throats are found to be free from diphtheria bacilli. The present incumbent of this position, Dr. Charles Canby, by his painstaking work has already demonstrated the importance of this position. Out of 1741 healthy children in infected houses whose throats have been examied 86 were found to contain diphtheria germs.

The bacillus of diphtheria is not a normal inhabitant of the throat. Park, in his "Report on Bacteriological Investigations and Diagnosis of Diphtheria, from May 4, 1893, to May 4, 1894, Scientific Bulletin No. 1, Health Department, City of New York," only found diphtheria bacilli in about one per cent. of the healthy throats examined in New York City. Most of these cases were traced to houses infected with diphtheria. He concluded that the children in such houses should be considered sources of danger until cultures show the absence of diphtheria germs. Our own experience in Baltimore has led to similar conclusions.

Another important series of investigations has been carried on in connection with the public schools. In several instances a direct history has been obtained of the presence of a diphtheria case in school. The throats of all the children have been examined immediately for diphtheria germs, and in Annex School No.

16, 22 children in 256 examined for diphtheria were found to have diphtheria germs in their throats. Other isolated cases have also been detected in schools or other public institutions. Out of 942 school children examined 65 were found to contain diphtheria germs in their throats.

DISINFECTION.

Formaldehyde gas has been used by the department in order to cause a surface disinfection of rooms in which diphtheria and scarlet fever have existed. In order to prove that the disinfection was complete it has been the custom to expose specimens of harmless germs in the room during disinfection. If these germs were later found to have been destroyed, it was assumed that the room was free from any further danger of contagion. Owing to the press of more important work, and lack of assistance, this prcoess of testing the disinfection was discontinued during the last few months, but the Laboratory is again carrying on the tests.

The gas has been generated by means of a Schering lamp and Paraform tablet, a 1 gram tablet being used for every twenty cubic feet of air space. Where it has been found possible to properly stop the cracks in the windows and doors, this amount of gas has been found to destroy the test cultures. It should be borne in mind that formaldehyde is only a surface disinfectant and that such bulky structures as mattresses, pillows, etc., cannot be properly disinfected by this gas. These solid materials can only be properly disinfected by a vacuum steam stertilizer, and such a machine is most urgently needed in this department, as at present there is no provision for such work in the city.

VACCINATION.

The Commissioner of Health had observed, after vaccinating a number of the department officials that the ivory points which were used would often cause severe reactions, and at times even excavated ulcers with pus formation. Following out his suggestions, a series of experiments were made in order to determine the number of organisms present on these ivory tips.

The following table will show the number of bacteria on the several points examined, and it may be remarked, in passing, that cover slips from a number of these colonies showed them to consist usually of the various forms of micrococci, or pus organisms. A number of tubes of glycerinated virus were similarly examined. These were all found to contain very much smaller numbers of organisms, as the comparative table will show.

In order to prevent the occurrence of these pus infections with vaccinia, the department has adopted glycerinated virus.

TABLE No. 3.

Ivory Points.	Glycerinated Tubes.
No. 1, 5288 bacteria.	No. 1, 3 bacteria.
" 2, 1416 "	" 2, 25 "
" 3, 441 "	" 3, 5 "
" 4, 360 "	" 4, 1 "
" 5, 1650 "	" 5, 4 "
	" 6, 21 "

Table No. 4 will show the work of the laboratory in detail during the past year.

TABLE No. 4.

Cases of suspected diphtheria examined	3,296
" " tuberculosis examined	2,067
" " typhoid fever examined	359
Throats of children examined for diphtheria in school	942
Diphtheria bacilli found in throat	65
Cultures made by inspector of throats	1,741
Diphtheria bacilli found in children wishing to return to school	86
Units of antitoxin given to indigent cases	1,300,550
Cases treated with antitoxin from department	711
Houses disinfected after diphtheria and scarlet fever	2,376
Yards disinfected	13
Colonies estimated per cubic centimetre in water	80
Complete examinations of drinking water	57

THE USE OF ANTITOXIN IN THE TREATMENT OF DIPHTHERIA.

One of the most important functions of the department has been the free distribution of antitoxin in indigent cases of diphtheria. Where the circumstances rendered the complete isolation of the case impossible, antitoxin has been used in order to immunize all

the children in the house. The results of both practices have been very gratifying, and in addition to the saving of many lives which would otherwise die of diphtheria, the spread of diphtheria has also been restricted. It has been the custom to use 1,000 units of antitoxin for immunization, and 2,000 for treating a case of developed diphtheria. This has been often followed by from 1,000 to 2,000 units in from 12 to 24 hours, if the case does not show decided improvement, and in a number of cases from 7,000 to 10,000 units have been used in treating a case. In one case 15,000 units were used, 2,000 being introduced every 12 hours.

Cases of Diphtheria Treated with Antitoxin Furnished by the Health Department from April 4 to December 31, 1898.

Cases.	Deaths.	Mortality.	Extent of Membrane.				Complications.					Diphtheria Bacilli Found.
			Tonsils.	Tonsils and Pharynx.	Nose.	Larynx.	Broncho-Pneumonia.	Nephritis.	Sepsis.	Paralysis.	Cardiac Paralysis.	
387	47	12.14 per cent.	186	12	41	53	2	4	10	13	9	288 cases.

Cases in which diphtheria bacilli were found	288	Cases immunized developing diphtheria	2
Deaths among above cases	30	Cases treated by inspectors	122
Percentage of mortality in above cases	10.41 per cent.	Deaths	7
Cases of laryngeal diphtheria	53	Mortality	5.73 per cent.
Deaths among laryngeal cases	20	Cases treated by physicians	204
Percentage of mortality	37.73 per cent.	Deaths	32
Cases immunized	256	Mortality	15.68 per cent.

Mortality After Antitoxin, According to the Day of Disease.

	Cases.	*Died.*	*Percentage of Mortality.*		*Cases.*	*Died.*	*Percentage of Mortality.*
Antitoxin given on 1st day.	90	1	4.44	Antitoxin given on 6th day.	7	2	28.52
" " 2d "	78	3	3.84	" " 7th "	10	2	20.00
" " 3d "	41	4	9.75	" " 8th "	3	1	33.+
" " 4th "	27	4	14.81	" " 10th "	5	4	80.00
" " 5th "	14	2	14.27				

Mortality of cases not treated by antitoxin (Welch) ..... 42.1 per cent.
" from diphtheria in Baltimore in 1896 ..... 51.87 "

The opposite table shows in 387 cases which were considered diphtheria by the physicians who applied for antitoxin that 47 deaths occurred, a mortality of 12.14 per cent. In 286 of these cases diphtheria bacilli were demonstrated by cultures, and only 30 cases died, a mortality of 10.41 per cent. In 53 cases of laryngeal diphtheria 20 deaths occurred, a mortality of 37.73 per cent. Out of the 256 cases immunized in infected houses a subsequent history showed that only 2 cases developed diphtheria. The latter half of the table also shows the importance of giving antitoxin at the earliest possible moment, as the mortality becomes greater as its administration is delayed. Although these conclusions are based upon a small number of cases, they correspond to the reliable deductions drawn from much larger statistics. Antitoxin was little used in Baltimore in 1896, and the mortality from diphtheria in this year was 51.87 per cent.

Respectfully submitted.

WM. ROYAL STOKES, M.D.,
Bacteriologist to Health Department.

REPORT

—OF THE—

Quarantine Hospital of the Port of Baltimore.

REPORT.

QUARANTINE HOSPITAL,

PORT OF BALTIMORE, January 1, 1899.

To the Honorable the Mayor and City Council of Baltimore:

GENTLEMEN: I have the honor to herewith submit the report of the Quarantine Hospital for the year ending December 31, 1898:

The past year has been the busiest one in the history of the Quarantine Hospital. During the year one thousand one hundred and twenty-nine vessels were boarded and inspected (see Table I.), and from these vessels we collected and paid into the city treasury the sum of $17,900.89. (See Table II.)

Seven vessels were detained at the Quarantine Station for disinfection. (See Table III.)

Nine patients were treated at hospital during the year (see Table IV.), of these two were sent from the city and seven were taken from vessels. All of these were discharged cured.

One corpse, dead of small-pox, was taken from a vessel and buried in the quarantine burying ground.

The cost of maintaining the Quarantine Station during the year was $20,000.00.

I would earnestly recommend the following improvements which are neccessary to bring the Quarantine Station up to what we know to be the standard of efficiency:

1. The purchase of a boat of sufficient size to withstand the seas and the ice of the lower river and fitted with modern disinfection apparatus, viz.: a steam champer, bichloride tank and pump and a sulphur furnace. The United States quarantine regulations require these at all stations where vessels are disinfected. Thorough

disinfection cannot be accomplished rapidly without them and the business of the quarantine cannot be carried on in a satisfactory manner without two boats.

2. The erection of barracks for the detention of suspects. This would allow the vessels detained in quarantine to dock immediately after the completion of disinfection. With our present equipment it is necessary to hold the vessels the entire period of incubation of the disease for which it is detained.

3. The erection of modern hospital buildings on the pavilion plan capable of complete disinfection and not necessitating the exposure of patients to other infectious diseases from housing them in the same building in which such diseases have been cared for.

4 The sinking of an artesian well to insure a certain and sufficient water supply.

5. The equipment of a laboratory both for the diagnosis and investigation of infectious diseases.

In conclusion, I beg leave to return my sincere thanks to Dr. Melvin S. Rosenthal for his intelligent assistance and to say that the employees have performed their duties in an entirely satisfactory manner.

Very respectfully your obediant servant,

JOHN RUHRAH, M. D., *Quarantine Physician.*

TABLES.

TABLE I.

Showing the Number and Class of Vessels Boarded and Inspected at the Quarantine for the Year Ending December 31, 1898.

Months.	Class of Vessels.						Total
	Steamships.	Ships.	Barks.	Barkentines.	Schooners.	Barges.	
January	85	.....	7	.....	1	.....	93
February	53	.....	3	.....	1	.....	57
March	71	1	6	.....	1	.....	79
April	90	.....	4	1	2	.....	97
May	93	.....	4	.....	36	.....	133
June	68	1	1	3	67	.....	140
July	65	1	2	2	23	.....	93
August	65	1	3	2	16	.....	87
September	57	1	.....	1	17	2	78
October	77	1	1	1	18	.....	98
November	73	.....	1	.....	3	.....	77
December	90	.....	2	3	2	.....	97
Total	887	6	34	13	187	2	1,129

TABLE II.

Showing the Amount of Money Received for Quarantine Fees, the Care of Patients and the Disinfection of Vessels for the Year Ending December 31, 1898.

Months.	Class of Vessels.						Disinfection and Care of Patients.	Total.
	Steamships.	Ships.	Barks.	Barkentines.	Schooners.	Barges.		
Jan ...	$1,564 63	.....	$54 62	.....	$3 62	.....	.....	$1,622 87
Feb....	983 50	.....	15 20	.....	2 00	.....	.....	1,000 70
Mar. ..	1,331 30	$14 88	41 62	.....	2 00	.....	.....	1,389 80
Apr....	1,577 33	.....	31 15	$8 70	4 00	.....	.....	1,621 18
May...	1,732 51	.....	36 33	.....	112 31	.....	$25 00	1,906 15
June ..	1,168 63	14 61	5 59	20 24	240 23	.....	.....	1,449 30
July...	1,216 56	31 54	29 92	11 17	104 85	.....	25 00	1,419 04
Aug. ..	1,177 22	12 63	24 25	15 24	84 32	.....	25 50	1,339 16
Sept...	1,046 63	15 10	.....	6 11	88 88	16 02	4 00	1,176 74
Oct....	1,514 04	15 22	11 25	4 28	92 31	.....	.....	1,637 10
Nov. ..	1,442 86	.....	14 65	.....	15 61	.....	.....	1,463 12
Dec. ..	1,853 78	.....	12 35	17 27	7 75	.....	.....	1,891 15
Total. .	$16,608 99	$103 98	$266 93	$83 01	$757 88	$16 02	$79 50	$17,916 31
Refunded to Owners.....								$15 42
								$17,900 89

TABLE III.

Showing the Number and Class of Vessels Detained at Quarantine for Disinfection, for the Year Ending December 31, 1898.

Months.	Class of Vessels.			Total
	Steamships.	Barks.	Barges.	
January				
February				
March				
April				
May		2		2
June				
July	1			1
August				
September	2		1	3
October	1			1
November				
December				
Total	4	2	1	7

TABLE IV.

Showing the Number of Patients at the Quarantine Hospital for the Year Ending December 31, 1898.

Disease.	Received.	Discharged.	Died.
Small-pox	1	1	
Chagres Fever	4	4	
Typhoid Fever	1	1	
Diphtheria	1	1	
Measles	1	1	
Quarantined	1	1	
Total	9	9	

REPORT

—OF THE—

INSPECTOR OF PLUMBING.

Report of the Plumbing Inspector.

C. Hampson Jones, M. D., Commissioner of Health:

SIR: I have the honor to submit the following report of work performed by this office for the year ending December 31, 1898. The annexed will show in detail the number of permits issued and inspections made:

Number of permits for plumbing	2,819
" " " " drains	269
Inspections of plumbing and drains	4,064
Registered plumbers in city	397

In conformity with the requirements of Section 7 of the ordinance regulating the work of plumbing, I most respectfully inform you that fines to the amount of $45.00 were imposed for violations

Respectfully,

JOS. C. MITCHELL,
Inspector of Plumbing.

PLANS RECEIVED AND PERMITS GRANTED FOR PLUMBING AND DRAIN WORK FOR YEAR ENDING DECEMBER 31, 1898.

January	Permits for plumbing			186	Drains		9
February	"	"	"	164	"		14
March	"	"	"	269	"		6
April	"	"	"	134	"		38
May	"	"	"	245	"		14
June	"	"	"	248	"		39
July	"	"	"	298	"		19
August	"	"	"	247	"		27
September	"	"	"	319	"		34
October	"	"	"	316	"		34
November	"	"	"	195	"		17
December	"	"	"	196	"		14
				2,817			265
Totals							3,088

INSPECTIONS OF PLUMBING AND DRAINS FOR THE YEAR ENDING DECEMBER 31, 1898.

January	Inspections of Plumbing and drains				184
February	"	"	"	"	179
March	"	"	"	"	310
April	"	"	"	"	178
May	"	"	"	"	320
June	"	"	"	"	129
July	"	"	"	"	487
August	"	"	"	"	285
September	"	"	"	"	500
October	"	"	"	"	192
November	"	"	"	"	330
December	"	"	"	"	322
	Total				4,016

REPORT.

BALTIMORE, January 2, 1899.

Dr. C. Hampson Jones, Health Commissioner:

DEAR SIR: I respectfully submit the following annual report of work done on the Gunpowder and Lake Roland water-sheds of the City of Baltimore, during the year 1898:

The Gunpowder, with its twenty-five branches, their divisions and sub-divisions, and the Lake Roland supply with all of its tributaries, have been personally gone over as a whole three times, together with repeated inspections of those sections in which drainage to and pollution of water has been greatest.

During the year, the inspections made have numbered 635; reports presented have been 153, and notices served by Dr. John S. Fulton, Secretary of State Board of Health, 20. There has been an abatement of 41 nuisances on the water-sheds, of verbal notices there has been kept no record. Suits entered by State Board of Health, 1; suits pending, 3. There have been about 48 photographs of nuisances taken, together with water both for bacteriological and chemical analysis, wherever there has seemed to be any possible source of pollution. Forty-eight (48) samples of deep water from the principal lakes, dams and branches, with the same amount of surface water, have been taken to test purity.

Inspections	635
Reports presented	153
Notices served by Secretary of State Board of Health, Dr. Fulton	20
Abatement of nuisances on water-shed	41
Suits entered by State Board of Health	1
Suits pending	3
Photographs taken	48
Samples of surface and deep water from principal dams, lakes and branches	48

Respectfully submitted.

GEORGE H. EVERHART, M.D.

BALTIMORE, January 10, 1899.

C. Hampson Jones, M.D., Commissioner of Health:

DEAR SIR:

I most respectfully report to you the work done by me as Inspector of Throats.

Number of cultures taken	1,741
Number of positive cultures found in children that wished to return to school	86
Number of houses visited	849
Number of units of anti-toxin injected	127,000
Number of patients injected	67
Number of cases treated for this department	4

Very respectfully yours,

CHARLES B. CANBY, M.D.,

Throat Inspector.

Report of Inspector of Bakeries.

BALTIMORE, December 31, 1898.

Dr. C. Hampson Jones, Commissioner of Health:

SIR: I respectfully submit the following report of inspections made during the year ending December 31, 1898:

Number of bakeries in Baltimore	480
" " " situated in cellars	252
Number of inspections	1,255
" " bakeries ordered cleaned and whitewashed	120
" " " " ventilated	1
Dough troughs and lids ordered cleaned	12
Cellars cleaned	5
" drained	2
Yards cleaned	8
" repaired	1
Alleys "	1
Rain spout reconstructed	1
Water pipe repaired	1
Privies cleaned	30
" reconstructed	1
" ventilated	1

Respectfully submitted.

F. GRIENEISEN, *Inspector of Bakeries.*

Report of Inspector of Meats for Year 1898.

	Stores.	Markets.	Slaughter Houses.	Abattoirs.
January	761	89	43	18
February	668	74	40	16
March	757	94	36	19
April	715	91	42	15
May	724	86	36	16
June	800	86	37	18
July	693	82	39	12
August	726	83	28	19
September	691	81	35	14
October	593	64	31	14
November	664	73	35	13
December	759	79	35	16
	8,551	982	437	190
	982			
	437			
	190			
Visits	10,160			

CONDEMNED.

Beef	4,893 lbs.
Veal	985 "
Mutton	2,131 "
Pork	140 "
Bacon	320 "
Ham	10,809 "
Sausage	285 "
Liver	430 "
Chip beef	400 "
Pig tail	300 "
Crabs	200 "
Vegetables	760 "
Poultry	300 "
Fruit	50 "
	22,003

T. EUGENE CARMICHAEL, *Inspector of Meats.*

Report of the Keeper of the Morgue.

BALTIMORE, January 7, 1899.

Yearly report of the Keeper of the Morgue, showing the number of bodies cared for and the disposition made of them during the year 1898.

Number of male bodies received	252
" " female " "	84
" " bodies sex not given	1
" " bodies buried by city	232
" " " " " friends	109
Bodies remaining from 1897, buried in 1898	7
Number of bodies identified	320
" " " unidentified	17
" " post-mortems	12
" " bodies at morgue December 31, 1898	3
Total number of bodies received and cared for from January 1 to December 31, 1898	337
Number of males, white	140
" " " black	111
" " females, white	19
" " " black	65
" " bodies color not given	1
" " " sex and color not given	1

WM. H. HACKMANN,

Keeper of the Morgue.

Report of the Superintendent of Public Cemeteries.

BALTIMORE January 3, 1899.

C. Hampson Jones, M. D., Commissioner of Health:

DEAR SIR: I beg to submit the following report of work performed by me as Superintendent of Public Cemeteries for the year ending December 31, 1898:

The table below gives a condensed statement of all work performed, such as interments in public and private cemeteries, bodies removed to city morgue, bodies given to the Board of Anatomy (in accordance with the requirements of Chapter 166, Laws of Maryland, 1890), number of houses from which infected bedding, etc., was removed and destroyed, number of patients removed to hospitals, etc.

Buried in public cemeteries	196
" " private "	54
Transferred to the Board of Anatomy	206
Taken to the city morgue	189
Infected goods destroyed from houses	73
Patients removed to hospitals	15

Respectfully submitted.

EMORY M. STEVENSON,

Superintendent of Public Cemeteries.

BALTIMORE, MD., December 31, 1898.

C. Hampson Jones, M.D., Commissioner of Health:

DEAR SIR:

I hereby submit my annual report on matters that come under my general supervision:

The number of official notices and letters sent by the head of the department was	1,346
The number of legal notices sent by the inspectors was	872
The number of notices sent to the public schools was	3,200
The number of school books fumigated was	13,000

Respectfully yours,

ALBERT E. MUSHAKE,

Messenger to Health Commissioner.

Annual Report for Year Ending December 31, 1898.

BALTIMORE, January 1, 1899.

Number of permits issued—died in the city	10,515
" " " " still births	752
" " " brought into the city	1,240

Respectfully submitted:

THOMAS E. WILLIAMS,
Permit Clerk Health Department.

ANNUAL REPORT

— OF THE —

HARBOR BOARD

— TO THE —

Mayor and City Council of Baltimore.

— FOR THE —

FISCAL YEAR ENDED DECEMBER 31st, 1898.

HARBOR BOARD OF BALTIMORE.

JANUARY, 1899.

WILLIAM T. MALSTER, MAYOR,
President ex officio.

CLARENCE SHRIVER,
Secretary.

JAMES B. ANDREWS,

GEORGE R. HEFFNER,

H. M. HARRIMAN,

GEO. W. MOORE,

JOHN R. SHERWOOD,

N. H. HUTTON, *Engineer.*

S. L. RICHARDS, *Clerk.*

REPORT.

OFFICE OF THE HARBOR BOARD OF BALTIMORE,
BALTIMORE, January, 1899.

To the Honorable the Mayor and City Council of Baltimore:

GENTLEMEN: The undersigned committee, as authorized by the Harbor Board, has the honor to submit herewith the report of the Board as to operations conducted under its direction during the year ended December 31, 1898.

Appropriations for the work of this department for 1898 were:

For maintenance and improvement of Harbor, and operation and maintenance of tug *Baltimore*		$40,000 00
There was also received during the year, from sale of Harbor Maps		40 75
From sale of old material		45 00
Making total available		$40,085 75
From which there was transferred by Mayor and City Council to "Ash Scow"		150 00
Leaving a balance of		$39,935 75
For salaries, Engineer and Clerk		5,000 00
" operation and maintenance of ice-boats		20,000 00
" rebuilding bulkhead in City Dock		4,783 89
" repair of wharves, and supervision of all wharves		1,500 00
" removal of ashes from tow-boats	$800	
Transferred from harbor to this account	150	
		950 00
" removal of floating matter		2,500 00
Making a total of		$74,669 64

Owing to very low rates at which the dredging contract was let, the Board was enabled to effect a large saving out of the appropriation for harbor, amounting to $13,743 54

Unexpended balances were also left in the city treasury from the several appropriations, as follows:

Bulkhead City Dock	1,390 16
Ice-boats	921 20
Salaries Engineer and Clerk	411 13
Removal of ashes	136 33
Repairs of wharves	116 74
Removal of floating matter	10 66
Making a total of	$16,729 76,

or a reversion to the general funds of the city of over 22 per cent. of the total amount appropriated for the operations of 1898.

MAINTENANCE AND IMPROVEMENT OF HARBOR, DOCKS AND CHANNELS, INCLUDING MIDDLE BRANCH.

Proposals for dredging in harbor and channels, Back Basin and docks, including Middle Branch, and for channels in Middle Branch were opened on April 22, and the contract was awarded to the Baltimore Dredging Company, which was the lowest bidder on all items, at following rates per cubic yard measured in scows:

Channels and main harbor	7 cents.
Back basin and docks (including Middle Branch)	8 "
Channels in Middle Branch	$6\frac{9}{10}$ "

Under this contract there were excavated and removed to a place in the bay, fifteen (15) miles from the harbor, 241,066 cubic yards, for which there was paid $17,310.13.

This work, as will be more fully set forth in the Engineer's report (hereto annexed), comprised the removal of deposits from docks along Light street (except a few to which dredges could not have access); from other docks in main harbor requiring such work; from the Back Basin, and from docks in Middle Branch.

The main channels in Middle Branch were redredged to 12 feet above Bayard street lateral channel, and the main ship channels in lower main harbor were dredged to 30 feet on both sides of harbor from the terminus of the 30 foot channel of the National Government off Lazaretto Light House, to width of 300 and 400 feet, as far as Pier No. 9 of the B. & O. Rail Road on the west side, and to a point 200 feet above Elevator No. 1 on the east side of the harbor.

The whole area covered by this dredging was 31½ acres, or 1,372,800 square feet, and the average depth of dredging was $4\frac{3}{4}$ feet.

TUG "BALTIMORE."

The tug *Baltimore* was found to require a new boiler, for which proposals were opened by the Board of Awards on December 7, and a contract was awarded to the James Clark Co. to supply a high pressure boiler, surface condenser, and a high pressure cylinder, connected with present cylinder, for the sum of $5,150.00

ICE-BOATS.

The city ice-boats were in commission for ice-breaking from February 2 to 12. As required by ordinances of the Mayor and City Council, the *Latrobe* was in service for the Free Summer Excursion Society from June 9 to August 31, conveying to and from Chesterwood 14,764 persons. This boat was also used for an excursion of the National Convention of Pharmacists, and for an excursion of the Schley Testimonial Association. It was also used to transport to and from Bowly's wharf the crew of U. S. S. *Dixie* on the occasion of their entertainment by the citizens of Baltimore.

Repairs on woodwork of the *Annapolis* were found necessary as to fender logs, chocks, bitts and sills of house, stanchions, etc., which were completed by Wm. Skinner & Sons, at a cost of $1,848.50.

Minor repairs to both boats were made, amounting to $940, details of which will be found in the Engineer's report.

INSURANCE.

Proposals were asked for insurance of the ice-boats and tug *Baltimore* (under ordinance approved April 4, 1898) as follows:

On each ice-boat	$80,000 00
On tug *Baltimore*	10,000 00

The following bids were received and opened on April 19:

	Fire and Collision.	Fire.
Maury & Donnelly	$2,200 00	$1,750 00
Cunningham, Coale & Co.	.....	1 per ct. of risk.
W. T. Shackelford & Co.	.....	1 " "
Wm. Brockie	4,250 00	1,020 00

The contract was awarded to Maury & Donnelly at $2,200 per annum for the risk of fire and collision, which embraces not only the cost of damage to the boats by collision, but that of damage done by these boats to other vessels—a very important matter to boats breaking ice in the close vicinity of other vessels.

REPAIRS OF PUBLIC WHARVES.

The repair of wharves was mainly confined to minor repairs of platforms, fender piles and logs, and the removal of ring bolts, fast piles, etc.

Expenditures under this head were $773 26.

REBUILDING BULKHEAD CITY DOCK.

The replacing of about 160 feet of the old wooden bulkhead (east of drawbridge) by a stone wall, on a pile and timber foundation, which was commenced in 1897, was completed under a contract with Benjamin Glenn on April 5, 1898.

The entire cost, including repaving in rear, removing and replacing lumber shed, etc., was.....	$3,661 11
Of which there was paid in 1897	507 38
And in 1898.....	$3,153 73

REMOVAL OF FLOATING MATTER FROM DOCKS.

This work was commenced with a force of men, carts and a small scow on June 7, and discontinued on September 28. The quantity of refuse removed and deposited on city garbage scows was 1,266 cart loads, including every variety of decayed animal and vegetable matter.

REMOVAL OF ASHES FROM TOW-BOATS.

The scow provided for this purpose has been on its station all the year, except for about one day in each month, when it was removed to be unloaded, fully one day being required to accomplish this and return the scow. There were received and removed to safe places of deposit during the year fourteen (14) loads, or 49,405 bushels of ashes, received from 79 vessels. Of these loads ten (10) were taken by private parties without charge to the city, and four (4) were removed and unloaded by the city at a cost of $48.

ESTIMATES FOR 1899.

The following estimates for the requirements of the public service, under direction of the Board, for the year 1899, were submitted to the Board of Estimates:

For salaries and wages, which include every item of payments under this head which can by any possibility be foreseen	$29,650 00
" repairs of wharves	4,210 00
" bulkhead City Dock	6,000 00
" new boiler and engine, city tug	7,000 00
" maintenance of ice-boats	8,060 00
" " " city tug	1,400 00
" dredging	30,000 00
" advertising and incidentals	400 00
" removal of ashes	400 00
" supplies, etc., removal floating matter	50 00
Making a total of	$87,170 00

Appropriations for 1899, as fixed by the Board of Estimates, are:

For salaries and wages	$29,290 00
" dredging	25,000 00
" ice-boats	6,000 00
" repairs of wharves	3,000 00
" removal of ashes	400 00
" " " floating matter	50 00
" boiler and engine—city tug	6,000 00
" advertising and incidentals	400 00
Making a total of	$70,140 00
or less than Board's estimates	$17,030 00

The reduction on items for 'dredging," "ice-boats" and "city tug" may seriously hamper such work as the Board considers necessary for the public interest

For details of work done, expenditures, etc., reference is respectfully requested to the accompanying report of the Engineer of the Board, and the statement in tabular form of receipts and disbursements during the year.

Respectfully submitted.

GEO. R. HEFFNER,
G. W. MOORE,
Executive Committee.

Approved by the Board.

CLARENCE SHRIVER, *Secretary.*

TABLES.

TABULAR STATEMENT OF RECEIPTS AND DISBURSEMENTS OF THE HARBOR BOARD OF BALTIMORE DURING 1898.

HARBOR.

Year Ended December 31, 1898.			Dr.	Cr.
Appropriation:				
Ordinance No. 89, May 11, 1898				$40,000 00
Received from sale of Harbor Maps				40 75
" " " junk at city yard				45 00
Expenditures:				
Baltimore Dredging Company	47,199 cubic yds., at	8c.	$17,310 13	
	36,461 " "	6.9c.		
	157,406 " "	7c.		
Supervision of dredging			1,420 75	
Dredging supplies			73 80	
Surveys			825 75	
Incidental expenses			284 25	
Advertising			139 00	
Removing wreck of schooner W. H. Rutan			500 00	
Transferred to "Ash Scow" under resolution approved November 26, 1898			150 00	
Tug *Baltimore*			5,638 53	
Crew		$4,375 49		
Fuel		421 45		
Repairs		550 92		
Supplies		140 67		
Insurance		150 00		
Unexpended balance			13,743 54	
			$40,085 75	$40,085 75

SALARIES OF CHIEF ENGINEER AND CLERK.

Year Ended December 31, 1898.	Dr.	Cr.
Appropriation:		
Ordinance No. 89, May 11, 1898		$5,000 00
Expenditures:		
Salaries	$4,588 87	
Unexpended balance	411 13	
	$5,000 00	$5,000 00

ICE-BOATS.

Year Ended December 31, 1898.			Dr.	Cr.
Appropriation:				
Ordinance No. 89, May 11, 1898				$20,000 00
Expenditures:				
	Annapolis.	*F. C. Latrobe.*		
Insurance	$1,025 00	$1,025 00		
Crew	5,189 75	6,349 92		
Fuel	453 25	214 88		
Repairs	2,669 19	1,226 40		
Steamboat supplies	182 61	302 44		
Subsistence	192 47	136 79		
Wharfage	111 10			
	$9,823 37	$9,255 43	$19,078 80	
Unexpended balance			921 20	
			$20,000 00	$20,000 00

REPAIRS OF WHARVES.

Year Ended December 31, 1898.		Dr.	Cr.
Appropriation:			
Ordinance No. 89, May 11, 1898			$1,500 00
Expenditures:			
Repairs of wharves		$773 26	
Bowly's Wharf	$447 34		
Back Basin	36 09		
Foot Calvert Street	132 46		
Foot Broadway	61 26		
Foot South Street	66 33		
Foot Montgomery Street	29 78		
General Supervision of Wharves		610 00	
Unexpended balance		116 74	
		$1,500 00	$1,500 00

NEW BULKHEAD AT CITY DOCK.

Year Ended December 31, 1898.	Dr.	Cr.
Appropriation:		
Ordinance No. 89, May 11, 1898		$4,783 89
Expenditures:		
Bulkhead	$3,153 73	
Supervision	240 00	
Unexpended balance	1,390 16	
	$4,783 89	$4,783 89

REMOVAL OF ASHES FROM TOW-BOATS.

Year Ended December 31, 1898.	Dr.	Cr.
Appropriation:		
Ordinance No. 89, May 11, 1898		$800 00
Transferred from Harbor, under resolution approved November 26, 1898		150 00
*Expenditures:		
Unloading ash-scow	$48 00	
Supplies	8 69	
Repairs	1 50	
Supervision of scow and dump	755 48	
Unexpended balance	136 33	
	$950 00	$950 00

*49,405 bushels removed from 79 boats.

REMOVAL OF FLOATING MATTER.

Year Ended December 31, 1898.	Dr.	Cr.
Appropriation:		
Ordinance No. 89, May 11, 1898		$2,500 00
*Expenditures:		
Removal from harbor	$2,479 30	
Repairs to scow	2 23	
Supplies	7 81	
Unexpended balance	10 66	
	$2,500 00	$2,500 00

*1,266 cart-loads removed (including 1,098 dogs, 769 cats, 10,930 rats, 1,518 chickens, 7,511 pieces of meat, 12,711 crabs, 572 bunches of fish, 5,433 pineapples, 115½ bushels of alewives, etc.)

Respectfully Submitted.

S. L. RICHARDS, *Clerk.*

Approved:

N. H. HUTTON, *Engineer.*

Engineer's Report.

REPORT.

OFFICE OF THE ENGINEER OF THE HARBOR BOARD.

BALTIMORE, January, 1899.

To the President and Members of the Harbor Board of Baltimore:

GENTLEMEN: I have the honor to submit the following report of operations during the year ended December 31, 1898:

The appropriations for the work of this department during the year, including receipts and transfers, were as follows:

For harbor, including maintenance and operations of Tug *Baltimore*	$40,000 00
Receipts from sale of harbor maps	40 75
" " " " junk	45 00
Making a total of	$40,085 75
From which must be deducted for amount transferred to use of ash scow	150 00
Leaving an available balance of	$39,935 75
For salaries of Engineer and clerk	5,000 00
" operation, maintenance and repairs of ice-boats	20,000 00
" rebuilding bulkhead in city dock	1,783 89
" repair of wharves and supervision of all wharves	1,500 00
" removal of ashes from tow-boats, including transfer of $150 from harbor	950 00
" removal of floating matter from docks	2,500 00
Making total appropriated and received	$74,669 64

HARBOR.

Proposals for dredging.

After due advertisement, proposals for dredging were opened on April 22, as follows:

Bidder.	Channels and harbor, price per cubic yard.	Back Basin and docks, including M. B., price per cubic yard.	Channels Middle Branch, price per cubic yard.
Sanford & Brooks..	11.35 cents.	11.35 cents.	11.35 cents.
Fred. E. Jones.....	10.90 cents.	13.50 cents.	10.90 cents.
Va. Dredging Co...	8.90 cents.	9.90 cents.	8.90 cents.
Balto. Dredging Co.	7.00 cents.	8.00 cents.	6.90 cents.

Contract.

As the lowest bidder on all items, the contract was awarded to the Baltimore Dredging Company. Work was commenced in Back Basin and docks (including Middle Branch) on May 5, and the whole contract, including channels in Middle Branch and Main Harbor, was completed on August 27. There were excavated and removed under this contract (the excavated material being re-deposited in the bay eastward of the Craighill Channel, about fifteen miles from the harbor), as follows:

Where dredging was done.

Light street docks.....	1,273	cub.	yds.
Pratt street and Bowly's.....	571	"	"
Foot Lancaster street.....	420	"	"
" Montgomery street.....	287	"	"
" Cross street.....	682	"	"
Woodall's slip.....	3,003	"	"
Harris Creek.....	8,248	"	"
Back Basin	14,722	"	"
Foot Eutaw street.....	1,673	"	"
Chatsworth dock.....	414	"	"
McCullough's dock.....	230	"	"
Bush-street dock.....	15,676	"	"
	47,199	"	"

Channel work in Spring Gardens was as follows:

Bush-street channel	10,208	cub. yds
Front McCullough's wharf	8,278	" "
Front Ranstead's bulkhead	3,633	" "
Bayard-street channel	5,314	" "
Chatsworth's run	2,508	" "
Main channel	6,520	" "
	36,461	" "

Ship channels were dredged as follows:

Fort McHenry to pier 9 (Locust Point)	91,743	cub. yds.
U. S. Lighthouse wharf to Canton Elevator	65,663	" "
	157,406	

A total of 241,066 cubic yards, for which the contractor was paid $17,310.13, or at the rate of about $7\frac{18}{100}$ cents per cubic yard, the lowest rate yet obtained in this harbor.

The work was distributed over the following areas:

Back Basin..... 87,000 sq. ft. to 16 and 19 ft. depths.
Docks.....179,000 " " 12 " 17 " "
Channels in Main Harbor, 957,000 sq. ft. to 30 ft. depth.

Excavation in docks

Docks in Main Harbor were generally dredged to hard bottom, varying in depths from 12 feet to 17 feet. The Back Basin from Canton avenue bridge to Main Basin was dredged to 19 feet, to provide a receptacle for material washed down Jones' Falls; and the Main Basin was dredged where necessary to maintain 16 feet depth.

Docks in the Middle Branch were dredged to 12 feet depth, except Bush street, which was dredged to 16 feet.

The main channels in the Middle Branch were dredged to maintain respective depths; that is, 12 feet above Bayard street channel, and 17 feet below and including that channel.

All depths here, as elsewhere in this report, refer to "Mean Low Water."

MAIN HARBOR.

Channels.

Channel work was confined to the extension of the 30 foot deep channel excavated by the National Government to the steamship piers on the east and west sides of the lower harbor.

The following "cuts" were made to 30 feet depths, commencing at the termination of the 30-foot-deep United States channel between Fort McHenry and Lazaretto Light:

West Side:

To Baltimore and Ohio piers 31 and 32, 150 feet wide, 2,600 feet long.

From piers 31 and 32 to piers 23 and 24, 300 feet wide, 1,800 feet long.

From piers 23 and 24 to pier 9, 200 feet wide, 550 feet long.

East Side:

Northern Central Railway elevator, 150 feet wide, 2,650 feet long; also a cut 100 feet wide, 1,700 feet long.

In the Middle Branch channels cuts were made as follows:

At mouth Chatsworth's run, 45 feet wide, 650 feet long, to 12 feet.

Main channel, Howard street to Bayard street, 90 feet wide, 1,450 feet long, to 12 feet.

Bayard street channel, 45 feet wide, 800 feet long, to 17 feet.

Across head of Basin, 90 feet wide, 200 feet long, to 12 feet.

Total area.

The total area dredged over during the season was 1,372,800 square feet, or 152,533 square yards, the total dredging, as before stated, being 241,066 cubic yards; the average depth of dredging was 4 feet 9 inches.

The expenditures on this account will be found in detail in annexed "Money Statement."

The Tug *Baltimore* was engaged in relieving the Harbor and Middle Branch from obstruction by ice, during January and February, and at other times in aiding the general supervision of dredging and policing of harbor and river to secure compliance with ordinances relating to harbor, docks and wharves. Tug's operations.

Late in the year, the boiler was found to be in such bad condition that a new one became a necessity.

Specifications were prepared, and proposals advertised for two (2) bids; one for a high-pressure boiler, with surface condenser, and the addition of a high-pressure cylinder, making a "steeple compound engine." The other was for a boiler of lower pressure, with surface condenser, using the present single cylinder. Proposals for new boiler and alteration of engine.

Proposals were opened on December 7, as per following abstract:

Bidders.	Specification No. 1.	Specification No. 2.
E. J. Codd Co.	$6,733 00	$5,657 00
Campbell-Zell Co.	5,931 00	4,747 00
R. M. Spedden Co.	5,235 00	4,415 00
James Clark Co.	5,150 00	4,500 00

As there was only $735 difference between the lowest bid for No. 2, and the lowest bid under specification No. 1, the contract was awarded to the James Clark Company, under its bid for Specification No. 1, for the reason that though the *Baltimore* is an old boat, if the better boiler and engine could be secured for so small a difference in cost, the city's interest would be served by accepting the proposal as stated. Contract.

ICE-BOATS.

The ice-boats *Annapolis* and *Latrobe* were engaged in relieving the harbor, river and bay from obstruction by ice, from about February 2nd to 12th. Ice-boats.

Excursions. As required by ordinance of Mayor and City Council, the *Latrobe* was employed from June 9th to August 31st in service of Free Summer Excursion Society. Twelve (12) trips were made, conveying to and from Chesterwood 14,764 persons (exclusive of crew).

In accordance with resolution of the Mayor and City Council, the *Latrobe* was in service for account of the National Convention of Pharmacists, on August 31st; and on September 12th conveyed the crew of U. S. S. *Dixie* from ship to Bowly's Wharf and return, on occasion of their entertainment by the citizens of Baltimore.

On September 12th an excursion was made, by authority of Mayor and City Council, for benefit of the Schley Testimonial Fund.

The *Latrobe* carried during the summer 16,034 passengers.

Repairs. The iron plates and angles of wheel-houses of the *Latrobe* being in bad condition, proposals for the necessary repairs were opened on March 12, as follows:

Jas. Clark Co., each plate	$27 50
Columbian Iron Works, each plate	27 00
C. Reeder & Sons, " "	39 50
R. M. Spedden Co., " "	30 00

Contract was awarded to and performed by the Columbian Iron Works, and work completed at a cost of $578.00

Proposals for signaling apparatus for the *Annapolis* were received on April 7, and contract was awarded to the Mullin Manufacturing Company at $200.00, the system offered being the cheapest and best in use for this service on ice-boats.

The woodwork on the *Annapolis* being, in many places of importance, such as bitts, chocks, fender logs, etc., found to be decayed, proposals for all work that could be seen and specified were opened on June 2, as follows:

Wm. Skinner & Sons	$450 00
Wm. E. Woodall & Co	550 00
E. J. Codd Co	623 32
R. M. Spedden Co	1700 00

The contract was awarded to the lowest bidder under the specifications, Wm. Skinner & Sons. As was to be expected, the uncovering of old work developed the absolute necessity for a much larger amount of new work and material to make the specified work of lasting service. The boat was, however, put in excellent condition for $1,848.50.

The decks of the *Latrobe* (outside of house) were caulked at a cost of $162.00. Detailed account of expenditures for both boats will be found in annexed "Money Statement."

REBUILDING BULKHEAD, CITY DOCK.

Bulkhead, City Dock.

During 1897 a contract was entered into with Benjamin Glenn to rebuild of stone, on a pile and timber foundation, about 160 linear feet of the old wooden bulkhead on south side of Back Basin, near the drawbridge.

This work was completed on April 5, 1898, at a cost of $3,661.11, of which there was paid in 1897, $507.38, and in 1898, $3,153.73.

REPAIRS OF WHARVES.

Repairs of wharves.

The following repairs were made during the year to public wharves:

Bowly's wharf, renewal and repair of piling, stringers, caps and platform, for 100 linear feet	$447 34
Foot South street, sundry repairs to platforms and fender piles	66 33
Foot of Calvert street, renewal of piling, timbers and platform	132 46
City dock, renewal and repair of fender logs	36 09
Foot of Broadway, repair of sheet piling, paving, etc	61 26
Foot of Montgomery street, repair of platforms	29 78
Making a total cost for work and material of	$773 26

REMOVAL OF FLOATING MATTER.

Floating matter removed.

Operations on the removal of floating matter from the harbor and docks were commenced on June 7, and continued until the appropriation for this work, $2,500, was expended on September 28

There were removed during this time 1,266 cart loads, which were gathered by scoop nets from a scow, its loads being placed on wharves, gathered by carts, and conveyed to city garbage scows in the Back Basin.

Among the matter thus removed were 1,098 dogs; 769 cats; 10,930 rats; 1,518 chickens; 7,511 pieces of meat; 12,711 crabs; 572 bunches of fish; 5 433 pine-apples and 115 bushels of ale wives. The dogs, cats and rats are generally washed in from the sewers; the remaining articles are thrown overboard from wharves and vessels, principally the latter. Expenditures on this account were $2,489.34.

REMOVAL OF ASHES FROM TOW-BOATS.

Ash-scow.

There were deposited on the ash-scow during the year 49,405 bushels of ashes from 79 vessels (or boats.)

Ten (10) of the ash-scow loads were removed and deposited behind bulkheads or on land by private parties, and for four (4) loads there was paid for unloading and depositing, at $12 per load, $48.

The scow is generally in good condition, but will need some caulking and painting in the spring.

Expenditures on this account will be found in annexed "Money Statement."

WRECKS.

Wreck.

The schooner *W. H. Rutan* was sunk during March in the mouth of Harris-creek sewer. After allowing the owner (who was a non-resident) ample time, at his request, to raise the vessel, and ascertaining that there was no immediate prospect of recovering any costs or

penalties from him, proposals were opened for raising and removing the vessel, on April 27, as follows:

Baltimore Wrecking Company	$800
" " " (to own wreck)	700

These bids were rejected, and on May 12 a contract was entered into with Jas. H. Thorington to raise and remove the wreck for $500. After numerous, prolonged and ineffective attempts Mr. Thorington abandoned his contract. His surety (The American Bonding and Trust Company) was called upon to perform the work, which was promptly undertaken by it and completed by October 1, when the amount due under the original contract ($500) was paid.

DURING 1899.

Work for 1899.

I would suggest that the head of Basin, Docks and Back Basin be thoroughly dredged (except Back Basin) to hard bottom before warm weather commences, and that, after the docks and channels in Middle Branch are dredged where necessary, the remainder of the appropriation (if any) be applied to extending or widening the 30-foot-deep channels to steamship piers.

It is presumed that all other departments of the works under the board for which money has been appropriated will be continued as heretofore.

Respectfully Submitted.

N. H. HUTTON, *Engineer.*

39th ANNUAL REPORT

—— OF THE ——

DEPARTMENT OF PUBLIC PARKS AND SQUARES

—— TO THE ——

Mayor and City Council of Baltimore,

—— FOR THE ——

FISCAL YEAR ENDING DECEMBER 31st, 1898.

PUBLIC PARK COMMISSIONERS

—— OF THE ——

CITY OF BALTIMORE, MD.

HON. WILLIAM T. MALSTER, MAYOR,
Chairman ex-officio.

JOHN N. STEELE,
Secretary.

DAVID L. BARTLETT.

ROBERT M. SPEDDEN.

CHAS. H. TORSCH.

HENRY V. CASEY.

WILLIAM GRIFFITH.

OFFICERS.

TREASURER'S OFFICE.

CHAS. G. LEONARD, *Treasurer.*

CHAS. R. PARKHURST, *Clerk.*

ENGINEER'S OFFICE.

CHARLES H. LATROBE, *General Superintendent and Engineer.*

J. W. BOLLMAN, Jr., *Assistant Engineer.*

E. W. HAYDEN, *Clerk.*

SUPERINTENDENTS.

WM. H. CASSELL, - -	Druid Hill Park.
ROBERT S. CORSE, - -	Patterson Park.
CHAS. L. SEYBOLD, - -	Carroll Park.
NOAH F. FLITTON, - -	Clifton Park.
J. FRED. WESSLER, - -	Riverside and Federal Hill Parks.
HARRY S. SINCLAIR, - -	Collington Park.
FRANK McLAIN, - - -	Johnston Park.
FREDERICK EBERT, - -	Mt. Royal Terraces and Bolton Park.

Report of the Public Park Commissioners.

BALTIMORE, December 31, 1898.

The Honorable the Mayor and City Council of Baltimore:

GENTLEMEN: In accordance with Section 5, Ordinance No. 60, "providing for a public park or parks," approved July 21, 1860, we beg respectfullyto submit the Thirty-ninth Annual Report of the Board of Public Park Commissioners for the year ending December 31, 1898.

This report includes the report of the Treasurer, showing in detail the expenditures made on each park during the year and the source of the revenue of this department, also the report of the General Superintendent and Engineer, given in detail the amount and character of the work done in the matter of maintenance of the parks and improvements in drainage and fencing, and repairs to roads, paths, etc.

During the year the iron railing on the western boundary of Patterson park was removed, and a hedge of hawthorn substituted, which has made a marked improvement in the appearance of the park.

The addition of 28.587 acres to Carroll park, by purchase under the authority of Ordinance No. 72, approved September 27, 1897, has been fenced in and work will be begun for its construction for park purposes as soon as the weather permits.

An immense amount of work of a routine nature is neccessary for the proper care and maintenance of the parks, which is fully described in the report of the General Superintendent and Engineer.

Report of the General Superintendent and Engineer of Public Parks.

For the Year Ending December 31, 1898.

The Public Park Commission, Baltimore, Md.:

Gentlemen: I herein beg leave to submit my report for the year of 1898.

As is usually the case January proved the most inclement month of the year, and nothing but routine work could be undertaken outside. The mercury fell to 14° on the 2d and rose to 59° on the 13th, compared with a record of 4° low and 50° high in January, 1897.

As the season advanced we gradually resumed work in the various parks with the results described in the following record.

Druid Hill Park.

(671.21 *Acres*).

ENTRANCES.

The entrance at Druid Hill and Fulton avenues was ordered remodeled in June and completed early in July; both gates were removed, the keeper's box shifted to the south side of the Fulton avenue entrance, the grades all readjusted, and both entrances paved with pebbles and guttered. This improvement has been fully justified by the results, and being in so public a locality, well lighted and well watched, no loss of animals has occurred that we are aware of.

The improvement of the outside approach to the Pimlico gate was ordered and made in June; about 100 lineal feet of roadway were regraded, the drainage lines changed, and the old cross gutter abolished, much to the satisfaction of the driving and wheeling public. Although this work was external to the park proper its evident necessity and small cost ($120) justified its execution.

The only other work done in connection with the entrance gates was at upper Latrobe avenue, where a circular gutter of asphalt block was laid to obliterate a muddy ditch in wet weather.

DRIVEWAYS.

In accordance with the orders of the Commission, issued after an inspection in regard to needed improvements, the reconstruction of the road from Silver Spring to the Twin Beeches was begun on April 12 and finished on May 26, a period of 39 working days. This improvement included the rebuilding of the connections with adjoining drives, much to their advantage in grade and curvature; the length of road rebuilt was 1,100 feet with a uniform width of 25 feet, the old road having been 17 to 20 feet wide. Upon the completion of this work the force was removed to Drive No. 7, extending from Crise's Fountain to the Clipper Esplanade, which had also been ordered rebuilt by the Commission. This work was pushed along vigorously, with some short intervals, until its final completion about August 6; its length was 1,300 lineal feet, and as in the case of the Silver Spring drive, it was given, in its new portion, a uniform width of 25 feet, the junctions at each end with other avenues were much improved.

The reconstruction of these two drives involved the laying of 2,500 lineal feet of pebble gutter, 242 square yards of pebble paving, the building of 9 brick inlets, the laying of 142 lineal feet of terra-cotta pipe, the building of 600 lineal feet of heavy guard rail, and a large amount of sodding on slopes, counter ditches, etc.

The only other driveway that received more than ordinary repairs was the continuation of No. 7 from the Clipper Esplanade to the Repair Shop, a very steep grade; this was thoroughly repaired and fully guttered.

All these roads and driveways were covered with from 4 to 6 inches of rotten rock, according to their needs, and well rolled before being turned over to the public.

FOOTWAYS.

No extension of footways made during the year. It was contemplated at one time to construct a path from the Druid Hill

avenue entrance to the Palm House, but more pressing work intervened and it was postponed; in the meantime the Northwestern Improvement Association, and the property owners on Evergreen Terrace, agitated the construction of a footway along Evergreen Terrace, just inside the park. At the request of the western committee I investigated this route, and staked out a footway from the corner of Fulton avenue and Evergreen Terrace to a point opposite the Golf Links on the Pimlico road. The report on this footway was sent to your Honorable Secretary on November 16, and awaits action.

Early in the season it became necessary to repair the stone footway from the Washington Statue to the Mansion (settlements had taken place, and much of the pointing had fallen out), this was put at once in hand, and completed by August 10; all repointing was done with Portland cement.

The stone footway laid, from Fulton avenue entrance to the Clipper factory gate, in 1897, is in excellent condition. It may be stated here that the policy of the Commission in paving the *main thoroughfares* for foot passengers across the park, three-fourths of whom are working people going to and from the mills and factories, has fully justified its first cost by the comfort given to the users, who pass at all hours and in all kinds of weather. These stone paths are readily cleaned of snow, easily kept in order and are, of course, entirely free from the wear and tear of the old dirt footways which they have superseded.

This practice has been fully beneficial in the matter of paving around pumps, springs and other much frequented spots, resulting in a large saving in repairs, and has added much to the comfort of the public.

The paving around the Sea Lion Pond was raised six inches this season, resulting in better drainage, and consequently a drier standing ground for spectators, who throng there at the feeding hours.

There is one footway which I have always thought should be made, and which I have recommended before, viz: around Druid Lake, following the crest of the embankment; at present the footway follows the south road where it parts from the Lake Drive, it

should be continued across the south road and, taking the outside of the Lake Drive, continue around at least to its junction with East avenue. This would make a most desirable promenade, say 10 feet wide, elevated 12 inches above the drive, overlooking the city and the valley of the Falls, and furnishing much standing-room above the Foot Ball and Lacrosse Field when match games are in progress. The drive has ample width to furnish this footway without detriment to its capacity.

CYCLE TRACKS.

During the month of May the Cycle Track along the Pimlico road, in accordance with orders issued, was shaped up, guttered, drained and its borders sodded; it was also extended at its southern end to a better junction with the driveway, and was surfaced throughout with blue limestone siftings.

The Cycle Track at the Sea Lion Pond has been kept in good condition. The number of wheels entering and using the park has manifestly declined since the season of 1897, whilst horseback riding has somewhat increased.

BRIDLE PATHS.

No additions have been made to Bridle Paths during the year. Those we have, have been kept in order. These paths cannot be used by wheelmen, being too steep, uneven, and cut up at times by horses' hoofs; they are, however, able to reach very beautiful points of view inaccessible to vehicles of any kind. The Bridle Path which leaves the East road beyond the Pump House reveals some of the loveliest glimpses of the valley of the Falls to be had in the vicinity of the city.

DRAINAGE.

Much work has been done under this head during the year, some new, others the reconstruction and improvement of existing work.

The upper gate, Latrobe avenue (western opening), being badly drained, a circular gutter of asphalt blocks was laid 84 feet long and 7 feet wide; this has answered its purpose.

In January an old but very important 10-inch drain-pipe opposite Newington avenue crushed, and much damage was done by the accumulated water; this pipe being 14 feet under ground, was reached with considerable labor; to provide against future failure the new pipe was bedded in and covered with concrete.

Two important lines of drainage were constructed in April across the Golf Grounds to convey the drainage from the Pimlico road to the park boundary. This involved trenching for and laying 153 feet of 10-inch and 549 feet of 8-inch pipe, and the building of one No. 1 and five No. 2 inlets; also the reconstruction of the wing walls of the stone culvert under road No. 13.

The drainage at the outfall of Spring Lake was also relaid in April. The dam being threatened with destruction the lake was lowered and the waste rebuilt; this involved the laying of 45 lineal feet of 18-inch pipe, 36 feet of 6 inch pipe, the building of one stone well and the repairing of the spillway.

It is not necessary to go into details as to guttering. Below will be found a summary of all drainage work done.

18-inch pipe laid	45 feet.
10-inch " "	171 "
8-inch " "	573 "
6-inch " "	114 "
4-inch " "	213 "
Inlets built, No. 1, twelve; No. 2, six; No. 3, two.	
Stone gutter laid and relaid	4308 lineal feet.
Brick " " " "	206 " "
Pebble paving laid with above	813 square yards.

BUILDINGS.

No new buildings have been erected during the year, nor have any old buildings been altered. Current repairs have been executed upon nearly every building in the park. New entrance steps were built to the Maryland building; at Council Grove Station half the entire base of the structure was renewed on a more enduring plan than the original. At the Monkey House the slatted platform surrounding the building, which had become thoroughly decayed, was removed and a substantial brick pavement substituted. The wooden steps leading to the lawn from the Mansion Esplanade were replaced with a brick flight.

MASONRY.

Very little masonry was laid during the year. Some work was done at the outfall of the Spring Lake, and some at the stone culvert under road No. 13 in the construction of wing walls and a head wall.

FENCES.

All exterior fences have been kept in good order by constant supervision, the removal of decayed posts, etc., and the substitution of new parts going on all the time.

In the month of June the entire wooden fence along Evergreen Terrace (785 feet) was thoroughly repaired. Five hundred lineal feet of decayed steel wire fence along the south driveway was replaced with a heavier steel fence and thoroughly painted, the gases from the Northern Central Railroad being destructive to metal in this section.

Of interior fences the enclosure of the Rhododendron plat was renewed on the eastern side. In September the decayed guard rail along the flower beds on Latrobe avenue was replaced with a more substantial construction 772 feet long; also around the Boat Lake 250 lineal feet were rebuilt in the same month. During August 600 lineal feet of heavy guard rail were built along the crest of driveway No. 7 upon its completion, to save the slopes from the children occupying the adjoining picnic grounds. At this time all inclosures are in good condition except a section of fence along Woodberry lane between Parkdale avenue and Reisterstown pike, which should be rebuilt next season.

PAINTING.

The painters have been actively engaged all the year, weather permitting, in their deparment. The fifty-eight buildings, large and small, all within the limits of the park required constant attention as to paint, as do the 2,300 park benches and the fencing. It may be truthfully said that by the time the painters get through the list they have to begin over again. The loss of time on out-of door work is very great and we have not always inside work on hand; what we have is saved for bad weather.

GARDENING.

This department has been faithfully administered during the past year and the display of summer beds wherever planted was handsome, indeed no previous season has matured finer colors in foliage plants than were exhibited in the large beds along Latrobe avenue.

This Rhododendron plat was also very handsome and the display of Nelumbiums in Pond No. 3 next the Sea Lion Pond were very fine, indeed, these vigorous plants have to be cut every season to prevent their taking possession of this entire water surface. The hedges have thriven well and there is now a vigorous growth from North avenue to opposite Whitelock street, which with the growth of trees, conceals the Northern Central Shops to a great extent. This hedge is of California Privit and has been kept well trimmed.

A short hedge of Crætegus Pyracantha was set out behind the Rippel Fountain to shade certain benches at that point.

All young trees, of which there is a large number, have been carefully looked after. Forty-seven deciduous trees and 57 evergreens have been set out during the past year, some of them to fill blanks. From time to time an unusual storm will destroy trees which are essential to their locality. On December 4 Druid Hill experienced such a blow, and several large evergreens were destroyed at the Mansion, leaving gaps which must be replanted.

The Propagating House has been kept in good working order and produced 32,000 bedding plants, of which 21,500 were used at Druid Hill, the balance went to the other parks. Druid Hill also sent 2,300 California Privit to Collington Park for hedge-planting.

The Palm House is in a flourishing condition, and its contents worth a visit. During the year six of the slat benches have been replaced with slate slabs, which makes them indestructible and protects the plants from the intense heat of the pipes in winter.

The total number of visitors during the year has been 18,713.

Total coal consumed in Palm House	77.46	tons
Total coal consumed in Propagating House	14.30	"
Total	91.76	"

This department has also attended to Frick's triangle, the Liberty street triangle, Linden triangle and the Callow triangle.

SUNDRIES.

The Quarry.—Work at the rotten rock quarry has been carried on from time to time during the entire year, supplying not only material for new work but for the repairs of roads, bridle paths and footways throughout the park. The amount of material required may be appreciated when it is remembered that we have fifteen miles of driveways, three-quarters of a mile of special cycle tracks and thirteen and one-half miles of footways, all of which have to be kept surfaced with rotten rock, excepting about one mile of macadam. Rebuilding the Silver Spring road and No. 7 alone consumed 642 cubic yards of rotten rock, although it was used very sparingly.

The Boat Lake.—The evil of marine grass has in a degree returned, and I am confident that we will never get rid of it in any of the park lakes until the contract with Henry Bishop is ended. I am cognizant of the fact from personal observation that the transfer of the young fish from pond to pond carries the grass seed with it. Whenever a can of fish is emptied a certain amount of mud flows out with the fish; this mud is full of the seed of the marine grass. This grass has now taken complete possession of the Boat Lake at Patterson Park, and is so dense in its growth as to fill the lake and make boating impossible. It is difficult to overstate this evil, and the amount of labor, which means money, expended to keep it down is very large. Unfortunately, Mr. Bishop's contract does not expire until April 30, 1900. He pays $600 per annum for the use of six park lakes, five in Druid Hill and one in Patterson Parks. He took out of the Patterson Park Boat Lake alone this November 100,000 gold fish, so that it is a profitable investment for him and a very unprofitable one for the city.

Paving.—We have laid around pumps, at the Monkey House, and at Linden triangle 288 square yards of brick pavement during the year.

Repairs to Buildings.—No very extensive repairs to buildings have been required this year. The Maryland Building entrance steps were rebuilt, and the western piazza in part.

The two-stepped base of Council Grove Station was one-half rebuilt on brick piers, making it practically indestructible.

In March it was ordered by the Commission that the camels be removed to the mule lot adjoining the sheepfold, and that the camel stable be put in shape for use as headquarters for the police wheelmen detailed to Druid Hill Park. This was done, and the necessary repairs finished at a cost of $128.97, making a most convenient shelter. At the same time comfortable stalls were provided for the camels in the mule shelter, which was partly enclosed for the purpose. All other repairs to buildings were simply current.

Maryland Building.—A very interesting and beautiful addition was made to the Natural History collection in a case of butterflies and moths, presented by D. D. Bulman, of 209 W. Camden street. Dr. Uhler, Provost of the Peabody Institute, kindly clasified them, they were then mounted and labeled by E. Weidenhammer, and placed in a case made for them in the south room.

The Zoo.—The number of birds and animals has decreased by the death of 13 during the year, and we have had few additions. The native inmates, coons, rabbits, prairie dogs, etc., flourish, but we are sure to lose a considerable percentage of the tropical birds and animals. I would respectfully suggest that we do away with the monkeys, which, by their filthy habits, do not present an edifying spectacle to the women and children who watch them, and turn the entire Monkey House into an aviary, filling it with birds of every kind attractive through their voices or plumage. We have only one bear left, whilst we could accommodate several, and I would recommend the purchase of at least one more.

By confining the exhibit to birds, bears, and a few other hardy animals, we can keep the cages full, and economize in the cost of food.

Sea Lions.—The two remaining Sea Lions are in perfect health and get on well together; judging from our past experience I do not

think we should ever have more than three in the pond, it has not size enough for more. I made a plan and estimate two years ago by which Pond No. 3 could also be utilized for Sea Lions by connecting it with the present pond by a canal. This would have made a handsome improvement and would have provided room for a considerable increase in the number of animals, it included the widening of the carriage concourse, and if ever carried out will make a notable change in the locality. The cost of keeping one Sea Lion one year is $300 in food alone, to which must be added the proper proportion of the keeper's wages.

The Deer.—The question of the future care of the deer has been a pressing one for some years; they are an attractive and pretty feature in the park but are very destructive to young trees, especially evergreens during the winter. They multiply very rapidly and were it not for the escape of a good many through the gates or over the fences at night, we would be overrun. I have for a long time been desirous of seeing them confined to a fixed area within the park and kept a fixed number. We could give them 23 acres in what is known as the wilderness and fence it in with steel wire fencing, scarcely visible but very strong.

All this has been reported on and is in the hands of your Committee under dates of November 14, and December 3.

The Camels.—The Camels have been reduced to two in number by recent sales, and it is really questionable whether it is worth while to replenish the herd; they require a special keeper, are now housed a long distance off at the sheepfold, and seem to have lost their interest to the public; it seems to me that the money they cost might be more profitably used at the Zoo or the Sea Lion Pond.

The Southdown Flock.—During the past year it was considered best to reduce the size of the flock; the animals had accumulated rapidly for some time, with but few sales. On January 1 the flock stood at 141; on March 31 at 197, the spring lambs having added 56 to the previous number. On June 1 the order to reduce the flock rapidly, at least to 100, was given. Quite a number were sold at the standard price to breeders, and a number of old ewes to the butchers. The flock to-day numbers 82; it is now manage-

able by the two shepherds, is not too large for the sheepfold, and does not cost so much to keep. It should never exceed 100, and when the spring lambs come, sales of the older animals should be pushed. The purity of the flock from inbreeding is likely to be soon impaired, unless a foreign ram is imported for next year.

Water Supply.—Early in October I received notification from the Health Department that Silver Spring, and eight of our fourteen pump-wells, had been found impure; four of these, however, only needed cleaning. Silver Spring was at once closed, and the condemned pumps locked.

The condition of the water supply at this date is ten (10) good pumps, three (3) good springs. By order of the committee Pump No. 1, at the Office Building, was removed, a coil placed in the well for city water, and a marble fountain erected over the well for the use of the public; this will be fully tested next season. There are two other pumps which can be removed and replaced by fountains in the same way as has been reported on to your Honorable Secretary, although I think the effect of coils in the old wells, on the temperature, is doubtful, and we had better await next season's results at the fountain now in place.

Repair Shop.—The blacksmith, wheelwright and carpenter departments have all been kept fully busy on carts, wagons, tools and numerous other matters connected with park work. Four hundred and sixty-three new park benches have been set up, besides repairs to old ones. Sixty new benches went to Collington, 20 to Clifton and 1 to Riverside. We have now an abundance on hand for future use.

Electric Lighting.—On June 30 the contract with Brush Electric Company having expired by limitation, after due advertising and consideration, a contract was entered into with the Northern Electric Company for two years from July 1, 1898, to June 30, 1900, to furnish all lights required at Druid Hill, Patterson and Carroll parks. On August 30 the change was completed in all the parks named.

The saving under the new contract in the cost of arc lamps is 27 per cent., in incandescent lamps 6⅔ per cent., whilst the service is satisfactory. All lamps and wiring were new.

Some changes have been made in the cable service at Druid Hill which have added to its efficiency by removing unused portions and the replacing of the old wooden conduit with cement-lined iron-pipe laid in concrete. The present number of arc lamps is 80, of which 22 burn all night and 58 to midnight. Of incandescents we have, all told, 71.

Storms.—On January 16 a heavy blow cost us 7 trees; the most destructive storm occurred, however, on December 4. It blew a hurricane from the northeast with heavy rain squalls. Druid Hill lost in this gale 55 trees, many of them of large size; 9 were large evergreens and 46 deciduous trees. Not much damage was done to roads except through the choking of the inlets with leaves.

Miscellaneous.—One ice-house was entirely filled, the other in part. The ice secured was only 4½ inches thick.

The first hay crop was estimated at 75 tons, in addition to which there was a fair second crop.

The following work was done, by order of the committee, outside of park limits.

The five squares in Park avenue extended were graded, soiled and seeded during the month of April at a cost of $406.91. Linden triangle was graded, soiled and seeded, and the pavement laid around it also during April at a cost of $49.15. Liberty street triangle was also kept in good order and planted with foliage plants in season.

Green Spring avenue has remained as reported at the end of last year, no work having been done on it. To keep it in fairly good order without any reconstruction work will cost about $1,200 per annum for labor and material. I understand there is no doubt of the validity of the title under which the Public Park Commission holds it.

PARK PROPERTY.

Condition.—All houses, barns, shelters, closets and other buildings are in good condition, and only require current repairs. All agricultural, lawn and road machinery is in good order. The stone-crusher, engine and outfit near the Clipper gateway is in good condition, but I would recommend that the entire outfit be

advertised for sale, as the quarry is exhausted, and there is no other point in the park where blue rock can be quarried without destroying the surface. It would not be profitable to move the crusher and use it for rotten rock, as the material is too soft, while most of it comes out almost ready for use.

The rolling stock is in good order or will be put in good order by the spring, the winter being the special time for wheelwright work at the repair shop. Horses and mules are in good order; five old mules were disposed of this fall by order. Eight mules and two horses have been sent to Clifton Park to winter. The total number of work animals at Druid Hill Park when all are present is 23, 8 mules and 15 horses.

Permits Issued During the Year.

For Picnics	414
For Baseball	359

Police Record.

Arrests during the year	24
Fined and released on payment	12
Committed	6
Dismissed	6
Total fines collected	$150 00

Total amount of coal used during the year:

In Gardening Department	91.76 tons.
At all other points	65.24 "
Total	157.00 "

Patterson Park.

(106 *Acres.*)

ENTRANCES.

A new entrance was made, by order of the committee, for foot passengers opposite Montford avenue, on Eastern avenue. The gate is a substantial iron gate, set firmly in the granite base of the park railing. As the park slope is steep at this point and a flight of steps necessary, a lot of old granite on hand was recut and built into a substantial stairway. The levels were paved with asphalt blocks to a connection with the park driveway.

The wooden steps at Montford avenue and Baltimore-street entrance were rebuilt.

During July and August all the iron gates in the park were overhauled and put in good order by Krug & Son. No other work was done on entrances during the year, except ordinary repairs.

DRIVEWAYS.

Early in the spring the steam roller was brought from Druid Hill Park, by order of the committee, and put upon the extension driveway. As anticipated, the road, which had been made with horse-rollers, sunk in places under the application. These settlements were, however, leveled up with limestone, and the experiment may be considered a success, as it led to the consolidation of certain soft spots.

As soon as the force could be spared from other work, it was put to finishing up the southeastern corner of the extension.

Six hundred lineal feet of driveway from 25 to 50 feet in width was roughed out between the end of the finished road and the southeastern entrance; two hundred feet of this was given its bottom bed of rough stone before the season closed after being thoroughly drained.

Throughout the park the driveways are in fair order, but the best are undoubtedly the macadamized drives on the extension. The graveled roads in the old park are constantly washing and wearing away, and, as gravel is very scarce in the neighborhood, material for repairs is to be had with difficulty.

FOOTWAYS.

No extension of footways was made during the year, except in the southeastern corner of the extension, where, in connection with the new driveway, 250 lineal feet of footway was roughly graded. The entire system of main footways has been roughly executed on the extension, but have not, with the exception of a small portion, been finished for want of time and material. I recommend that gravel or bluestone be purchased for the purpose during the season of 1899.

The footways in the old park have been repaired as needed during the season.

DRAINAGE.

But little pipe-laying was needed during the year, as all the main lines have been constructed for some time. Three hundred and fifty lineal feet of blind ditching was executed in the bed of the newly-graded driveway in the southeastern corner of the extension; 50 feet of 6-inch pipe was also laid, and 45 brick inlets were either entirely or in part rebuilt at different points in the park.

BUILDINGS.

The ladies' waiting room, near the main entrance, was thoroughly repaired, including gutters and spouting.

The Conservatory, which is a constant bill of expense, was repaired where most needed; its wooden frame requires constant renewal, and, I believe, it would be an economy to rebuild it in iron as to the principal members.

The west entrance platform to the Casino was also renewed in part.

The Propagating Houses have been entirely repainted and reglazed where needed, and put in order.

Other buildings will need overhauling and painting next season, but are not suffering now.

It will be a matter of necessity next year to increase the amount of shelters for rolling stock and implements, and also to furnish increased loft-room for the storage of hay. Plans have been prepared for such a building in connection with the present shelter in the stable yard; the work can be done by our own hands.

Some repairs were put upon the porch of the Superintendent's House.

The amount of painting done has been considerable; as stated above the Propagating Houses were entirely repainted and reglazed. The two octagonal shelters have been repainted, also the Casino closets, the roofs of the repair shops, electric light poles, and all benches and railings.

GARDENING DEPARTMENT.

The summer beds were both numerous and handsome at Patterson Park. There were seventy-three (73) beds, which consumed 41,300 plants, involving an immense amount of labor, not only in propagating but in the preparation, planting and caring for the beds. The multiplication of summer beds, I think, has gone too far, in view of the cost and labor attending it, and in view of the supply needed before long in the numerous city squares, which abound in summer beds. Our Propagating Houses are pushed to their utmost capacity now to furnish plants for the present parks, and will be entirely unable to furnish plants when the squares are added. I would, therefore, respectfully recommend that the summer beds be reduced in number by the substitution of permanent beds in some cases, and their abolition in others.

A Hawthorn hedge has been planted along Patterson Park avenue, between Baltimore and Lombard streets; also a Privit hedge around the compost yard on the extension. Quite a large number of Euonymous, evergreens and other plants have been set out during the year, and it is contemplated to set out a large number of evergreens in the spring of 1899; we have a fine assortment of these in the Nursery. As we contemplate extending our hedges next year we are propagating hedge plants for this purpose. Thirteen of the summer beds have been planted with bulbs for spring flowering. Tree-planting on the extension had to be postponed on account of the unfinished condition of the surface to the eastward, and the amount of soil required.

The contents of the Conservatory are in good condition, and considerable improvement has been made in the arrangement and distribution of the plants.

Visitors during the year, 29,934.

The work of the Propagating Houses is as follows:

Used at Patterson Park	11,693
Sent to Jonston Square	4,173
" Federal Hill Park	2,095
" Riverside Park	6,695
" Broadway Squares	1,416
Total	56,072

The Patterson Park Nursery sent to other parks 840 shrubs, and evergreens in great variety.

The amount of coal consumed as follows:

In Conservatory	48.23 tons.
In Propagating Houses	16.10 "
Total	64.33 "

On the extension 1,122 loads of soil have been distributed between the driveway and the eastern fence preparatory to grass-seeding.

SUNDRIES.

Electric Lights.—As at Druid Hill Park, the Brush Company's contract expired on June 30, and on August 24 the Northern Electric Company put in the 27 arc lights. One new arc light was installed on the eastern slope of the Esplanade by order of the eastern committee, making 28 in all. During the early summer a severe electric storm shattered three of the arc lamp poles and quite a number of line poles; these were at once replaced. The light service has been, as far as reported, very good. The storms, which created havoc at Druid Hill on January 16 and December 4 were hardly felt at Patterson.

The ice-house was filled early in the year with 4½-inch ice. The cost of cutting and storing is about 30 cents per ton; what we buy costs 25 cents per 100, or $5 per ton; allowing, however, one-half of what we store for waste, our ice costs us 60 cents per ton when used. The house holds about 250 tons.

The Lakes.—Both lakes have been used by the skaters and without serious accident, although eternal vigilance is the only safeguard, as no warnings are remembered.

The past habit of lowering the Extension Lake in the winter, whilst it shallows the water, always results disastrously to the lake embankment, and numerous slides ensue, which are not only costly to repair, but do permanent damage, and will ultimately destroy the rip-rap. The only plan to pursue in skating weather is to have force enough around the lake with ropes and planks to keep the skaters from overcrowding, and to rescue any one who may fall in.

During the summer the City Commissioner's Department uncovered the Baltimore-street branch of the Osier-run sewer to a depth of 18 feet in the northeastern corner of the extension, making a huge pit in the terrace and causing considerable trouble and annoyance. This excavation remained open several weeks, at the end of which time it was abandoned, refilled, and the machinery, etc., removed to the north side of Baltimore street.

A roomy and convenient storage-yard, for compost and road metal, was formed at the extreme eastern boundary, provided with a substantial entrance and surrounded with a Privit hedge.

The entire eastern boundary fence has been rebuilt with pickets as the only means of preserving it and the park property. This fence is 2,000 feet long; it was also extended a short distance west on Eastern avenue. Two good gates were placed in it to accommodate carts when necessary.

All street tree-boxes on south, west and north of old park were put in order and the pavement relaid around them.

The drinking fountain at the north end of the Boat Lake was supplied with an ice-box and coil.

The iron railing was removed by order of the eastern committee for the entire length of the park, about 2,000 feet on Patterson Park avenue.

At the Bank-street entrance 416 lineal feet of ¾-inch water pipe was laid parallel with Patterson Park avenue, with two street-washers to reach the flower beds in that vicinity. This new pipe taps the supply to the Conservatory, which we will have to strengthen next season.

About 12 tons of hay were cut and stored during the summer.

After consultation with the Superintendent it was decided to leave the Boat Lake empty of water in the expectation that the winter would kill the marine grass, which has become such a nuisance. This lake is also badly in need of cleaning out; the mud would make a valuable fertilizer.

I would also suggest the removal of the old closets for men at the north end of the Boat Lake and of the closets for women in the house west of the Boat Lake. The closets for men and women at the Casino and for men at the stable, with the addition

of a modern water closet for women and children in the shelter house at the Observatory, would provide all needed accommodation and get rid of two nuisances.

Police Record.

Arrests during the year	19
Fined	13
Dismissed	6

Disposal of cases:

Paid their fines	9
Committed	4
Fines Collected	$45 00

Total amount of coal used during the year:

In Gardening Department	64.33 tons.
At all other points	39.67 "
Total	104.00 "

The new superintendent of Patterson Park, Mr. Robert S. Corse, took charge on May 12.

Federal Hill Park.

(8.25 *Acres.*)

The stability of the surface of Federal Hill has been so satisfactory for several years that we were rather unprepared for the sudden appearance in January of a deep well in the eastern slope, an evidence that some of the old caverns were still in existence. The settlement was at once filled with ashes, taking about 25 cubic yards. This was washed in with an abundance of water, and the hole closed up and sodded. No settlement has since appeared.

The main entrance on Warren avenue has been thoroughly overhauled and vastly improved; the drainage was rearranged and the surface paved with asphalt blocks (43 square yards).

DRIVEWAY.

This has been kept in repair and regraded where necessary.

FOOTWAYS.

These are all paved now with asphalt blocks, and are, with the exception of local settlements, always in good condition. The middle terrace walk, east front, had become full of small settlements, and having been laid originally with second-hand blocks, was in bad order. It was taken up as far as necessary and relaid in part with new blocks. Amount of work done 543 square yards.

The Covington street sidewalk was partially relaid this fall on account of local settlements due to drains, tree roots, etc. A few new bricks were used. Amount of pavement relaid 642 square yards.

Repaired 498 lineal feet of guard railing.

All benches, guard rails and the woodwork of the closets have been painted.

The five flag-poles on the Observatory were thoroughly overhauled, repaired and painted, and the balls gilded. They were also fitted with new trucks and halyards. A new United States flag was provided for the central staff.

The wooden hand-railing on the Covington street stairway having gone to pieces, it was replaced with an iron-pipe rail similar to the other stairways; length of new hand-railing 218 feet.

GARDENING.

The beds on Warren avenue were carefully planted and looked after during the season, and, although few in number, made a creditable display. All trees and shrubs have been cared for, cultivated, mulched and trimmed. The very extensive hedges of Osage Orange and Pirus Japonica are in excellent order, and have been carefully pruned from time to time. The summer beds have been planted with bulbs for spring flowering.

Coal consumed during the year, 1 ton nut.

Ice consumed, 37,670 lbs. were used in the one coil box at the fountain on the northwest corner.

Police Record.

Arrests	4
Fined	2
Dismissed	2
Fines paid	$15 00

Considering the proximity of the water front the police record is very good; it is a favorite lounging place, with its beautiful outlook, during mild weather, from early morning until late at night.

I would state that the new Superintendent, Mr. J. Frederick Wessler, took charge of this park on June 1, with Marcus Hammond as an assistant.

Riverside Park.

(17.28 *Acres.*)

Entrances.—A new footgate for the accommodation of the neighborhood was opened on Covington street, and the entrance paved with brick. This district has been entirely built up and occupied within 18 months. Amount of paving, 50 square yards.

Driveways.—Driveways have been kept in order, and 1,141 square yards resurfaced with gravel, the balance of the work done on them was ordinary repairs. Gutter relaid on drives, 426 lineal feet.

Footways.—The necessary footway to connect the new Covington street entrance with the park system was made. A much needed change in the approach to the men's closet was also made, and all tree openings in the pavement on Randall street were enlarged to admit moisture.

Painting.—This has gone on rapidly this fall, the intention being to repaint all benches, guard-rails and roofs before spring; nearly all of this is now completed. The Office Building has been put in thorough order, and painted inside and out; it has also been paved around with brick, greatly to the benefit of its appearance and cleanliness. The pavement around the drinking fountain at the upper Pavilion was relaid, and extended with asphalt blocks; a new coil box, with iron cover, put in and the drainage rearranged. Brick pavements were also laid around the other two drinking fountains.

All gutters, benches, fences and buildings have been repaired as needed during the year, and are in good condition. Brick paving has been laid in front of 137 benches, as a rest for the feet; it prevents the wear and tear upon sod borders, and is a comfort to the sitter.

Thirty-nine thousand two hundred and twenty-five pounds of ice were used in the one coil-box at the Pavilion fountain between June 15 and September 30, when it was stopped.

Coal consumed during the year, 2 tons nut.

GARDENING DEPARTMENT.

The flower and foliage beds at Riverside have been exceptionally handsome and flourishing this season, being massed in the immediate vicinity of the very beautiful fountain, they were seen to advantage; the fountain basin was also well set with handsome water lilies in tubs. These beds are now set in bulbs for spring flowering. The beds of shrubbery in other parts of the park have been kept in good condition and renewed when needed.

Police Record.

Arrests during the year	8
Fined	4
Dismissed	3
Committed	1
Fines Collected	$65 00

Mr. J. Frederick Wessler took charge of Riverside Park as superintendent on June 1, and has taken an active interest in its improvement.

MT. ROYAL TERRACES.

(2 *Acres*).

Until the month of May only the routine care of the Terraces was carried on. Warm weather in March opened many early blooms of Jasmins and Pirus Japonica, which were all nipped by the frost in April, thus destroying much of the spring blooms.

In May all hedges were trimmed, grass cutting began actively, and the summer beds were planted with foliage plants; 3,031 came from Druid Hill Park and 1,510 from Clifton, 4,541 in all.

These Terraces are wonderfully flourishing when the character of the surrounding atmosphere is considered. The proximity to the Union Station, where so many trains pass north, south, east and west, fills the air with coal-smoke and gases so that the vegeta-

tion is smutted with them, whilst Mt. Royal avenue, until recently, has added clouds of dust. Notwithstanding these drawbacks proper care and the use of an abundance of water for washing the plants and hedges has kept everything in good condition. The Oriental Plane trees, which were planted along here in November, 1893, have proved to be better fitted than any other variety to stand the smoke, gases and dust. They are in remarkably fine condition, and hold their foliage well into November.

The completion of the paving of Mt. Royal avenue in October with sheet asphalt has removed one of the most serious drawbacks to the prosperity of these terraces, and will stimulate the improvement of vacant property.

All flower beds have been planted with bulbs for spring flowering.

Bolton Park.

(3.34 *Acres*).

This park, which passed into the hands of the Public Park Commission in 1897, has been kept in thoroughly good order during the past year, and much work has been done to perfect its condition.

The brick gutters and drains have been regulated, the sod borders have been relaid to meet the gutters properly, all entrances to the footways have been paved with brick to avoid wash.

A keeper's house and tool box were put up in May, and subsequently a small house for the hose-reel and wheelbarrows.

The grass, which constitutes the entire surface of the park, leaving out the footways, has been faithfully cut, and has been treated liberally with ground plaster and manure. The lawns being all seeded will require a year or two to mature. The slopes were all sodded, and have already a solid turf.

Two more hose plugs were put in during the year to facilitate watering. Six Norway Maples were set out this fall to fill blanks.

First rate grass is all we need in this park, and we will have it probably in the summer of 1899. I think it would be well to look forward to paving all the walks with brick, as every walk is a thoroughfare.

Johnston Park.

(2.58 *Acres.*)

The condition of this park during the past year has been all that could be desired. The footways, being all paved but one, only need cleaning. The sidewalks around the park have been repaired to the extent of about 90 square yards, and the pavement openings around the street trees have been much enlarged to admit water to their roots.

Benches, guard rails, lamp posts and vases have been painted.

This park, like Mt. Royal Terraces, is principally a garden park, and much attention is paid to the flower beds, which have been fully up to requirements for the past season; they have been filled with bulbs this fall for spring flowering. The trees are in good condition; five poor specimens inside have been replaced with better stock this fall, and on the line of Biddle street the alternate street trees have been taken out, as they were too thick and were failing, some dying; all of the latter were replaced with new stock.

The roots of the fine row of trees on Chase street were so mutilated when the street was recurbed and paved with sheet asphalt, some two years ago, that I fear we must replace them all in another year, as they are evidently failing.

I would recommend the paving of the only unpaved walk next season.

Coal consumed, 1 ton.

Collington Park.

(5.14 *Acres*)

This park was practically finished at the close of the working season of 1897, but lacked many things necessary to its convenient use by the public.

During January, February, March and April nothing was done, except to look after the property, and to keep the drains, gutters and walks in good condition. With May grass cutting began, and on May 17 the new Superintendent was put in charge. Orders were at once issued to put the park into condition for use by the public.

ENTRANCES.

Five entrance gates for pedestrians were arranged for. Light iron gates, with wooden posts, were put up, one at each corner of the park, and one in the centre of the south side; ultimately one will be needed in the centre of the north side.

The street corners at the entrances were all paved, and a flight of wooden steps erected at the southwest entrance, to give access to the terraces above; the other entrances were level.

FOOTWAYS.

The development of footways had been largely executed during 1897, but it was now finished up with the addition of five short flights of steps, connecting different levels; four of these were of brick and cement, the fifth of wood.

The footways are now entirely cut out, and a foundation of cinders laid; but these paths will not be serviceable until filled up with fine blue stone, or something equally good; the gas-house cinder is excessively dirty and unfit to walk on.

DRAINAGE.

This park contains a number of small springs, which give a good deal of trouble in wet weather; several of them had been treated before but others had not. To drain these wet spots we laid during the year 400 lineal feet of 3-inch terra cotta pipe, and 100 feet of 4-inch terra cotta pipe, with one new inlet. The 3-inch pipe was laid in broken stone, with open joints. Five hundred lineal feet of brick guttter was relaid. The park is now quite well drained.

PAVING.

Six hundred and ninety-one square yards of brick paving were laid inside and outside of the entrances, and at a few other points. The City Commissioner's Department, greatly to the benefit of the park, reset all the curb around the park, and laid a good brick pavement on all four sides.

BUILDINGS.

A new Keeper's House having been ordered by the eastern committee, plans were made and adopted and bids obtained; these are now in the hands of the committee. In the meantime the foundation and cellar have been built, and covered in for the winter. The present Keeper's House was rolled to one side, to be used until the new one is ready.

ELECTRIC LIGHTS.

Five arc lights were cut in on September 20, and have given satisfaction. All the lamp and line poles are of iron, put up after our own designs, and belong to the Commission.

SUNDRIES.

Painting.—All wooden stairway, benches and electric lamp and line poles have been painted.

One drinking fountain has been erected on the upper terrace and drainage provided; also a hydrant near the Keeper's House.

Eighty park benches have been placed conveniently for the public.

GARDENING.

In order to ma e the park attractive, two beds were made 20 feet each in diameter, one on the upper esplanade and one in the lower circle; these were planted with foliage plants by the Clifton Park gardeners and relieved the green uniformity of the lawns very much. They have since been cleaned up and planted with bulbs for spring flowering.

By order of the committee a hedge of California Privit was planted around the entire park just inside the fence; the hedge took 3,100 plants, 2,500 of which were furnished by Druid Hill Park.

In addition to this 246 shrubs in variety were set out by Clifton gardeners, also 22 silver leaved maples were planted in the eastern and southeastern section of the park.

Ten climbing roses have been planted in prominent places with wire trellises for there support.

During the fall the entire surface has been manured and all trees and shrubs well mulched.

The ground at Collington Park is excessively poor and it will take some years and much enriching to bring it up to a high degree of prosperity.

Carroll Park.

(35.77 Acres).

ENTRANCES.

Nothing has been done to the entrances the year past; they are all temporary in character, the adjoining streets being ungraded and unpaved except in the case of Columbia avenue, which is not an agreeable approach to the park. The northwest gate at Monroe street is at present the most important; those on the extension are only used by dirt carts.

DRIVEWAYS.

The driveways in the old park have been kept in good order; those on the extension have been developed as rapidly as the finished grading permitted; we will during the next season be able to connect the extension driveway with that of the old park so that carriages entering at Monroe street bridge can reach Columbia avenue by a diagonal route through the park. All material delivered at Carroll Park fitted for road making, such as broken brick, stone, cinders and ashes, are placed in the road bed, hence we have a pretty good foundation at the bottom to be surfaced afterwards with gravel or macadam. A considerable area of drive has already been graveled. When the new eastern extension is completed it will be easy to connect the present road system with it.

FOOTWAYS.

The new footways in the extension have kept pace with the driveways and have been graveled as rapidly as material could be obtained; those in the old park, including the Mall, have been kept in good repair.

DRAINAGE.

All gutters, inlets and underground pipes are in good order; a large proportion of the brick gutter in the old park was relaid during the season, they having become much injured by frosts.

On the extension the work on the main sewer was resumed on July 14 and completed on October 7 to Monroe street; this sewer is now completed for 1,029 lineal feet, the east and west length of the present park, and is 30 inches in diameter. It is built throughout on a timber platform, 604 feet of which rests on piles, and 425 feet on the ground. The use of piles and a platform were made necessary by the prevalence of clay pits along the sewer line, many of them very deep. This sewer has eight man-holes at each of which enter drain-pipes from the north and south, also head walls at each end. The sewer was built of concrete in moulds and then lined with vitrified brick as to its lower half. The total cost has been $5,474.45. It will hereafter have to be continued to a junction with the Carey street sewer which passes through the new extension.

BUILDINGS.

The only new permanent building put up during the year is a plant house, which became absolutely necessary for the purpose of wintering a large number of valuable plants which had been gradually accumulated from year to year. The work was all done by our hands and the house occupies a position in harmony with the final location of the Nursery and Propagation House which were located where they are before the extension was purchased, but which will have to be moved within a year or two to a better locality on the extension which is being now prepared.

In addition to the above a temporary shelter for lawn machinery and other property was erected near the stable.

The large pavilion was thoroughly repaired during the year; all other buildings, including the mansion, have been kept in good order. The storm of December 4 did some damage to the shutters and windows, but nothing material.

FENCES.

These are in good condition except the eastern fence of the old park which is very dilapidated; however, as we are now fencing in the newly acquired land to the eastward, this fence becomes an inside division and can be dispensed with at an early date. Fenc-

ing in the new extension became necessary for the exclusion of promiscuous dumping which went on day and night and over which we had but little control; even now we will have a large amount of regulating to do in the redistribution of the miscellaneous stuff with which the ground is covered. At this date the fence has been finished along Bayard street from Ohio avenue to Mylander's property, thence westward and southward around the Mylander property to Columbia avenue, thence along Columbia avenue to the property occupied by Knecht & Son, from which they have refused to remove although notified to do so some months ago.

GARDENING.

The Gardening Department has been actively at work during the year and the results have been commensurate. In the old park the lawns and terraces have been brilliant with handsome foliage beds. A very interesting plantation of cactus plants was exhibited north of the Mansion, and the rockeries were covered with a profusion of bloom. All shrubs and young trees made excellent growth during the year, the only drawback being that the young oaks were constantly robbed of their foliage by the English sparrows, for this we have as yet discovered no remedy.

On the extension the large garden plat has been completed, bordered and planted. The plan upon which this was developed is that the spectators standing on the edge of the upper terrace on the Mansion plateau shall have before and below them the four terraces and the great garden plat beyond stretching to Columbia avenue all symmetrically laid out and divided into two by the straight footway from the Mansion to the entrance gate. The terraces have been some time planted and are in a flourishing condition; the extension garden beyond has been entirely outlined and is in part planted but will require some years to reach maturity.

The amount of work done in this department may be inferred from the following figures:

Plants set out in summer beds	35,000
Iron vases planted	13
Shade and ornamental trees	359
Evergreen trees and shrubs	398
Hardy perennials	190
Dwarf edging box	2,870
Hardy roses	64

All of the above except the summer beds is permanent planting.

We have at this date in the Carroll Park Nurseries 850 young trees and shrubs. For the propagation and storing of plants we now have 2,900 square feet of glass. Carroll Park at this time contains a remarkably fine and varied assortment of evergreen and deciduous trees of the finest varieties; our effort has been to make its gardening department exceptional; this is favored by a pretty fair soil and a very favorable exposure to the southward; evergreens which will not grow elsewhere flourish here; the Lebanon and Deodar cedars are exceptionally fine.

The propagating house is moderate in size and when moved to its permanent position should be enlarged.

Coal used in gardening department, 25 tons.

The following items in regard to new work done on the extension will be of interest:

Filling material deposited,	42,600 cubic yds. from the outside.
Material redistributed inside by park carts	7,364 cubic yds.
Soil bought and distributed to tree holes and on lawns by park hands	1,500 " "
Sodding laid	1,400 square yds.
Terra cotta pipe laid	425 lineal feet.
New lawns graded and soiled	2½ acres.
" driveways graveled	440 lineal feet.
" footways graveled	2,700 " "
" footways made but not graveled	930 " "

SUNDRIES.

Flag Pole.—A new flag pole 100 feet high was raised and dedicated on August 19, with appropriate ceremonies.

Electric Lights.—On August 19 the Northern Electric Company cut in their new lamps, and the Brush Company withdrew.

Painting.—The two closets, the pavilion, the urns, all guard rails, and all steps were repainted during the year.

Coal consumed:

In Gardening Department	25 tons.
In Mansion, etc	10 "
	35 tons.

ARRESTS

Made during the year	9
Fined and released on payment	4
Committed for court	1
Released on payment of costs	4
Fines collected	$20 00

Clifton Park.

(252.9 *Acres.*)

ENTRANCES.

Nothing has been done during the past year to any of the park entrances other than to keep them in good repair; the five gates erected in 1897 are in excellent order. It is quite likely that several of these gates may be shifted, and new ones added when the system of driveways for Clifton is fully developed.

DRIVEWAYS.

The plan adopted by the Commission for the construction of driveways in the immediate vicinity of the Mansion has been pushed forward, and the loop around the Mansion (1,400 feet long) finished; it still lacks a connection with the main entrance, which is essential to its completion. It is very necessary that the development of the driveways be pushed as rapidly as possible at Clifton; the capacities of the park for beautiful drives is very great, communications can be made with Montebello, with the Belair road, and with Erdman avenue. These drives will make all parts of the park accessible, not only to carriages but to foot passengers; until they are constructed the greater portion of Clifton will remain unused. When these roads are made, the open ground, which constitutes the bulk of the surface, can be intelligently planted with trees, but not until they are.

The old narrow roads or lanes have been kept in order, being the only means of communication through the place.

I should state that the Lake Driveway was turned over to the Park Commission during the year, and has since then been kept in repair by the park force; this was the only drive in the park, besides the Washington street entrance, of any use for teams when Clifton became city property.

FOOTWAYS.

The construction of footways has been confined to the esplanade east of the Mansion (about 242 feet) and to the approaches to the spring, south of Washington street.

A path has been laid out, 750 feet long, to connect with the Belair road from the stone bridge, and was ploughed preparatory to construction, but want of time has thus far prevented its execution.

All the old paths through the nursery and gardener's quarters have been kept in good order.

DRAINAGE.

The pipe line from the vicinity of the propagating house through the nursery to the open drain, which takes all the water of the valley to the eastward, was entirely constructed during the past season. The work began in April and was finished in May, and consisted as follows: 254 feet of 18-inch pipe, 356 feet of 15-inch, 333 feet of 12-inch, 363 feet of 6-inch, and 171 feet of 4-inch; total length 1,477 feet, with six open inlets and one blind well. The lower end of this line from its outlet for a distance of 240 feet was bedded in broken stone to help drain the wet subsoil and springs.

This is the most important line of drainage in the park, and not only takes the place of the pre-existing open ditch but enables us to carry off surface water from the paths in the nursery, and also to drain the hillside clear back to the crest of the ridge on which the Superintendent's house stands.

We also laid 265 feet of 2-inch and 50 feet of 6-inch pipe, with necessary inlets, to drain the beds and paths of the old garden.

The construction of the new driveway around the mansion with the eastern esplanade and provision for a fountain waste made it necessary to lay 129 feet of 6-inch, 416 feet of 8-inch and 45 feet of 12-inch pipe, with two inlets to carry the water to the southward.

To sum up, we have laid during the year 2,695 lineal feet of terra-cotta pipe from 2 inch to 18 inches in diameter, and built 11 inlets. Three-fourths of all the pipe used was purchased in 1897 and not laid on account of more pressing work.

BUILDINGS.

The mansion, gate house and all the dwellings, the conservatory and propagating house at Clifton are in excellent condition, having been thoroughly renovated during the past two years.

An annex 100 feet long by 8 feet wide has been added to the propagating house to increase its capacity; this addition will hold 5,000 plants.

The floor of the cellar under the conservatory has been raised to keep out the water.

The farm buildings, consisting of a stable, corn-house and two hay barracks, are all temporary. The stable is fairly good, having been converted from a wagon shelter in 1897; the corn crib is sound, but the hay barracks are fast failing, being very old. I would strongly recommend the putting up as soon as possible of a good stable for eight horses, with harness and feed room, also a separate barrack for hay, removed some distance from the stable. We would also need shelter for carts, wagons, mowing machinery, etc.

PAINTING.

The painting done during the year has been confined to 200 park benches and the new annex to the propagating house; all the buildings at Clifton had been repainted when repaired during 1896 and 1897.

WATER SUPPLY.

The introduction of city water into Clifton Park having become an absolute necessity, a contract for the necessary pipe, fire-plugs, hydrants, etc., was entered into with Wallace Stebbins and work was begun on August 1, at the 4-inch main on Washington street, west.

The main line was located as nearly straight as possible, their being only two bends in it from Washington street to the stable yard at the Superintendent's house. It consisted of 2,520 lineal feet of 4-inch cast iron pressure pipe, 375 feet of 1¼-inch branches, and 795 lineal feet of ¾-inch branches with three city fire-plugs with 2½-inch and 4-inch nozzles, two 4-inch cut-off valves, one drinking fountain and ten hydrants for hose.

The work was completed and tested August 20, a few leaky joints were recaulked and the ditch back filled. The pressure on the line is 80 pounds per square inch at Washington street, 80 pounds at the tennis courts, and 60 pounds at the Superintendent's

house, which is on high ground. Everything works well, the supply is excellent and with a reel carrying 350 feet of 2½-inch hose and a fire brigade drilled once a month, the buildings are pretty safe until the City Fire Department can reach the ground.

In connection with the city water supply a bath-room was fitted up in the Superintendent's house and a sink placed in his kitchen.

As to the native water supply, the two improved springs and three pumps in use have been analyzed by the City Health Department; all proved to be pure except the pump at the stable which for obvious reasons was found impure; it has been abandoned.

The spring south of Washington street, west, has been much improved by raising the coping and covering it with a granite cap and iron cover which admits of its free use but protects it from abuse; the spring water level has been raised six inches. The surface around the spring was paved with brick.

There are several good springs, unimproved, within the limits of Clifton which can be made useful at some future time should this water prove to be pure.

A fountain was placed on the city supply at Washington street, west, and the surroundings paved with asphalt tiles.

GARDENING.

The flower beds this season have been quite up to their previous record. The large square beds of the upper terrace, and the fancy beds in the old Hopkins' garden, were equally successful and well cared for, making a grand display of colors. Next season the new beds at the Mansion will be planted, in the meantime they have been set with bulbs for spring flowering. A large butterfly bed with name of park has been made on the southwest slope of Clifton Lake.

The propagating house has been worked to its utmost capacity the product being 47,900 plants, of which 38,000 were used at Clifton and the balance sent to other parks. The annex built this year will add to next year's capacity.

The Conservatory has been kept in excellent condition and contains an interesting collection of plants well arranged and flourishing, it is now about as full as it can hold.

Visitors during the year 11,915.

The large nursery grounds with their box hedges have been gradually brought into condition, hollows filled in and hillocks leveled.

Only the choicest of the fig bushes and the best of the pear trees have been retained, all others having been removed. The yield of fruit this year has been very small. Ultimately all these fruit trees should be removed, and the nursery devoted to the propagation of trees and plants for other parks, and especially for Clifton, which will require an immense amount of tree planting within the next few years. At present the nursery contains 360 evergreens in variety, 284 deciduous trees and 645 shrubs and hedge plants, 1,289 in all.

Coal used in Conservatory	16.85 tons.
Coal used in Propagating House	16.72 "
Total	33.57 "

FARMING.

The farming operations this year have been limited in extent. Four hundred bushels of rye were harvested and sold after reserving a sufficiency for seed. The oats yielded nothing but green food. Much of the ground seeded last fall in grass failed and will have to be seeded again; 10 acres were seeded in grass this fall. The amount of grass is, of course, increasing, and the amount of hay made should proportionately increase. The entire park was twice cut over during the season, and some portions three times.

SUNDRIES.

A good deal of grubbing and cleaning of rough ground has been accomplished, and much remains still to be done. There is much dead timber in the woods, also a large number of crippled trees and many stumps.

The lower portion of the garden valley towards the Belair road has been ditched in several places to dry out the surface, which had become swampy from springs. The athletic field was also ditched where necessary.

Some 2,000 square yards of sodding was laid in the improvements around the mansion.

Lighting.—On July 19 I was instructed by your Honorable Chairman to try the Welsbach incandescent gasoline lamp at Clifton, by putting up six in the grove west of the Mansion, and in time for one of the concerts. They seemed so acceptable that one hundred were ordered put up, under a contract for three years, from August 1, 1898, with the Welsbach Street Lighting Company of America.

My opinion is, after personal observation, that whilst the light is excellent when the lamp is in perfect condition, the extreme fragility of the mantle renders it extremely difficult to keep them in good condition in the open air, where the act of lighting subjects them to fractures, and a stormy night, which jars the lanterns heavily, has the same effect. Indoors the Welsbach incandescent cannot be surpassed; in the open air I am doubtful of its permanent success.

Concerts.—On July 18 a contract was made with Roscoe M. Packard, leader of the Fourth Regiment Band, to give thirty six concerts, six in each of the six parks named in the contract. Those at Clifton were well attended and much enjoyed by the public.

Play Grounds.—During the year, by order of the Commission, the baseball field was moved from near the Mansion to its present position, and the Mansion grounds reserved for quieter games; this was a wise move.

Permits issued:

To Field Days	4
Picnics	9
Football	15
Baseball	54

The golf links have been used a good deal.

Arrests	7
Dismissed	4
Fined	3
Amount of fines collected	$20 00

Fuel consumed during the year:

In Gardening Department	33.57 tons.
At other points	27.43 "
Total	61.00 "

Before closing my annual report it may be well to indicate the various plans which have been formulated for the improvement of each park within the past few years, omitting such as have become obsolete.

Druid Hill.

The construction of a footway from where the South road leaves the Lake drive around the exterior of the Lake embankment skirting the Lacrosse ground to the East road.

The construction of a Carriage Concourse, or Esplanade, on what is known as the Mason Purchase, overlooking the valley of the falls.

The enlargement of the quarters for the Sea Lions by taking in Pond No. 3, and in connection therewith enlarging the Carriage Concourse at the Crow's Nest.

The moving of the barn and wagon sheds from their present location and their construction at the sheepfold on a different plan.

The making of a Deer Park of some 25 acres, to be enclosed by a wire fence.

The construction of an Eagle Cage, near the Monkey-House, for large birds of prey.

The construction of an Observatory on Druid Hill, back of the Mansion.

In all these cases drawings and approximate estimates of cost have been made.

Patterson Park.

The construction of a water closet for women and children in the Women's Shelter-House, near the Observatory. This is much needed, and when built will enable us to remove the women's closet at the Shelter, near the Boat House, which is a great nuisance.

The removal of the men's closet at north end of Boat Lake. With the six men's water closets at the Casino, near by, and six more at the stable, there is really no need for this closet, which is difficult to keep clean, and helps to pollute the Boat Lake.

The erection of a gateway at Eastern avenue upon the completion of the driveway in the southeastern corner of the extension.

The placing of a single jet or spray fountain in the centre of the Extension Lake as soon as the water supply along Eastern avenue is sufficient. The pipe for this jet was laid into the lake when it was built and was carried some distance toward Eastern avenue.

The reconstruction of the wagon shed at the stable and the enlargement of the stable-yard. This is very important, as we cannot shelter all the rolling stock, and also need more loft for the hay crop, which is becoming large. The plans for this are complete and ready for work.

The cleaning out of the old Boat Lake, which is filling up with mud. This material, with the addition of a little lime, will make admirable soil.

Riverside.

The reconstruction of the northwest entrance is very much needed. Plans for a new gateway here were approved four years ago, but want of funds interfered with the commencement of the work. The present iron gate is very dilapidated. It is probable that two granite posts, without a gate, is all that will be needed here within a few years.

The same may be said of the northeast gate, which is in the same condition.

Carroll Park.

The erection of a permanent stable for three horses with harness room, also a small hay barrack and wagon shed nearby, to take the place of the present temporary stable and shed, which are not in the best location.

The moving of the present Propagating House to its permanent location on the extension. When it was placed where it is the extension had just been purchased, and was a net-work of yawning brick pits.

The removal of the present wing from the Mansion, which is a modern affair and entirely incongruous, and building the two wings which were especially designed for the Mansion and adopted by the Commission several years ago. The drawings and estimates for this improvement are all on hand.

Clifton Park.

A new permanent stable, hay barrack and wagon shed are among the most pressing needs at Clifton. The present stable was made of an old wagon shed, and whilst it shelters the stock, is most unsightly and inconvenient. The present hay barracks are very old and in the last stages of dilapidation; they cannot be repaired. As to a wagon shed for rolling stock, farming and lawn machinery, all valuable property, we have none and are obliged to put away carts, etc., in the hay barracks, whenever there is a corner unoccupied.

I would suggest that drawings and estimates be prepared for the above-named buildings, with a general plat showing their location on the ground.

The adoption of a complete system of driveways and footways for the entire park, giving access from every direction to vehicles and foot passengers. There is much dissatisfaction along the Belair road on this score, as all the inlets to Clifton are on the Harford road, except one almost useless approach at the southeast corner of the park from the Belair road.

These roads and paths must, of course, be constructed gradually, but should be designed as a whole; the driveway recently made around the Mansion, as well as the driveway made two years ago, are parts of an entire system which has been blocked out already. With its drives completed Clifton Park would become one of the most attractive parks in the city.

I lay great stress on connecting the Clifton Park system with the Lake Montebello drive by a short tunnel under the Harford road or by an open cut and a bridge.

The conversion of West Washington street into a mall or promenade to be planted with trees; all as per plans on file in this office.

The consummation of the purchase of the strip of woodland along Erdman's avenue, which is now in process.

The sale of the 20 acres south of the Belt Railroad. This property can never be of use to Clifton Park, and if a city free bathing establishment should ever be built there, two acres of the lowest ground would be ample for buildings and accessories.

As Clifton has the advantage of uncommonly large Nursery grounds, having been used as a commercial establishment for many years, and the said grounds being admirably located, it naturally follows that any expansion of our propagating facilities should be developed here, where there is an abundance of room. I would, therefore, suggest that the present facilities for propagation, belonging to other parks, remain as they are, and that all needed expansion be made at Clifton.

The question of how best to utilize the Mansion Houses and Casinos of Druid Hill, Patterson Park, Carroll Park and Clifton, is of interest. It is quite evident that the day has passed when they can be profitably leased as restaurants; the multiplication of suburban resorts, with full liberty as to drinking, etc., and ease of access to them by means of rapid transit, has made the park restaurants unprofitable, this we know from actual experience. It seems, therefore, that the park central buildings must be converted into shelters, where visitors young and old may assemble, where a gymnasium for children may be conducted, and playroom for infants, with a counter at which milk and bread, and a few other articles, may be had at low rates.

A museum of natural science might be started at Clifton.

These are a few of the uses to which these unused buildings might be put.

At Clifton there should be a room at the Mansion fitted up as a Park Office for the Commission.

Respectfully submitted,

C. H. LATROBE,

General Superintendent and Engineer.

PARK INVENTORIES.

DRUID HILL PARK.

Buildings.

Mansion,
Maryland building,
Office building,
Stone dwelling,
Superintendent's house,
Palm house,
Propagating house,
Monkey house,
Hatching house,
Filtering house,
Bear den,
Rabbit warren,
Sheep and mule shelters,
Animal house,
Coon pit,
City police station,
Repair shop,
Barn building,
Lumber shed,
Wagon shed,
2 keepers' houses,
9 gate houses,
13 picnic shelters,
18 closets.

Park Furniture.

2,256 benches,
155 stools and chairs,
Furniture in office,
2 United States flags.

Stone Crushing Plant.

Engine house,
Upright boiler,
Crusher and screen,
Horizontal engine,
Inclined railway and car,
Engine, fire tools and belting.

Live Stock.

15 horses,
8 mules.

Southdown Flock.

82 sheep.

Show Animals.

2 sea lions.
2 camels,
1 macaw,
4 cockatoos,
6 parrots,
8 paroquets,
30 mixed birds,
1 owl,
1 brant,
3 wild geese,
2 swan,
9 Pekin ducks,
3 bantam chickens,
1 bear,
1 ant bear,
6 monkeys,
1 marmoset monkey,
3 ground hogs,
8 raccoons,
2 wolves,
15 prairie dogs,
35 rabbits.

Rolling Stock.

12 watering wagons,
2 express wagons,
1 lumber wagon,
18 carts,
1 watering cart,
1 dray,
2 hay rakes,
1 jagger,
1 top buggy,
1 buggy without top,
1 steam roller,
2 two-horse rollers,
1 one-horse roller,
3 snow plows.

Harness and Horse Furniture.

11 sets double harness,
3 sets single harness,
18 sets cart harness,
23 halters,
10 curry combs and brushes,
2 lap robes,
2 horse covers,
25 collars.

TOOLS AND EQUIPMENT.

Gardening.

2 Champion mowers,
7 horse lawn mowers,
4 hand lawn mowers,
11 shovels and spades,
10 pruners,
7 thermometers and slate,
2 oil stoves,
6 trowels and weeders,
7 watering pots and buckets,
300 feet of hose and reel,
2 wheelbarrows,
2 sets of fire irons,
5 picks and hoes,
6 rakes and forks,
1 spray barrel cart,
1 lot copper and iron wire,
1 lot twine,
1 brass syringe,
16 sundries.

Repair Shop.

1 set of blacksmiths tools,
1 set of wheelwright tools,
1 set of pipe tools,
1 drill press,
1 tire bender,
1 tire shrinker,
1 forge,
1 bellows.

Miscellaneous.

28 wheelbarrows,
112 picks and mattocks,
64 shovels and spades,
54 stone hammers,
52 forks and hoes,
1 platform scale,
1 meat saw and cleaver,
1 derrick,
3 sets blocks and falls,
21 axes and saws,
72 dippers,
36 brooms,
1 force pump,
34 park uniforms,
4 food boxes,
1 wire fence stretcher and tools.

Materials.

59 bars of iron and steel, assorted,
57 pick and axe handles,
150 hammer handles,
3,780 feet assorted lumber,
13 pairs cart and wagon rims,
90 wagon wheel spokes,
4,376 bricks,
250 asphalt blocks and tiles,

Materials—Continued.

400 fence pickets,
1 lot of old lumber,
35 cords of wood,
40 sections electric conduit,
13 barrels cement,
1 lot of wire netting,
200 pounds white lead,
200 " yellow ochre,
168 " colors,
150 gallons metallic brown,
1 barrel linseed oil,
30 assorted grates,
3 well covers,
154 sections T. C. pipe, assorted,
16 pieces of 2-in. iron pressure pipe,
21 " of 3-in. " " "
3,000 engineer's stakes,
10 gallons turpentine,
4 " asphaltum varnish,
4 " Japan driers,
22 paint brushes,
20 road signs,
28½ tons coal (estimated).

PATTERSON PARK.

Buildings.

Superintendent's dwelling,
Casino,
Conservatory,
Fountain pagoda,
Music pavilion,
Stable,
Blacksmith shop,
Tool house,
Storage shed,
Observatory,
Boat house,
Propagating house,
Pump house,
Ice house (stone),
Water gate tower (stone),
Carpenter shop,
Wagon and cart shed,
6 keeper's boxes,
5 shelters,
6 closets.

Park Furniture.

34 oak chairs,
1 oak table,
1 oak desk,
2 door mats,
8 stoves,
5 coal buckets,
1 umbrella stand,
1 clothes chest,
2 floor rugs,
805 park benches,
1 United States flag,
1 boat and pair of oars.

Live Stock.

4 horses.

Rolling Stock.

1 jagger,
1 buggy,
1 express wagon,
1 lumber wagon,
1 one-horse watering wagon,
1 two-horse watering wagon,
1 one-horse roller,
1 two-horse roller,
3 carts.

Harness and Horse Furniture.

2 sets carriage harness,
1 set wagon harness,
2 sets double harness,
2 sets machine harness,
3 sets cart harness,
4 brushes and combs,
1 pair scissors,
1 riding bridle,
1 riding saddle,
4 horse halters,
2 carriage whips,
2 horse blankets,
2 lap covers,
1 set clippers.

TOOLS AND EQUIPMENT.

Gardening.

1 champion mower,
6 hand lawn mowers,
1 hand truck,
12 pruners, saws and shears,
16 spades, rakes and hoes,
13 forks and sod cutters,
2 reels and line,
1 hay rake, (horse),
4 lawn mowers, (horse),
8 scythes and sickles,
300 feet of hose and reel,
3 step ladders,
3 ploughs,
1 cultivator,
1 brass syringe,
31 sundries.

Repair Shop.

1 blacksmith forge
1 set blacksmith tools.

Miscellaneous.

69 mattocks, picks, shovels and forks,
12 saws, chisels and drills,
1 platform scale,
3 suction pumps,
20 wedges, pinch bars and wrenches,
1 hand roller,
13 park uniforms,
10 rubber coats,
14 wheelbarrows,
30 rammers, mauls, sledges and hammers,
1 50-feet tape line,
14 mortar hoes and ice hooks,
1 grind stone,
1 cat and rat rifle,
6 gum wood rollers,
37 sundries.

Materials.

22 drain well grates,
2 wrought iron post feet,
25 cast iron hurdles,
One-half barrel Portland cement,
10 gallons linseed oil,
400 pounds white lead,
1 can putty,
30 cans of paint colors,
6 paint brushes,
176 asphalt blocks,
13 vases,
180 yards muslin,
1 lot of cars, tracks, frogs, etc.
Small lot of iron and steel,
1 lot terra cotta pipe,
500 hard gutter brick,
12 spools ribbon wire,
250 feet B. M. lumber,
22 tons of coal (estimated).

FEDERAL HILL PARK.

Buildings.

Tool house,
Out house.
Observatory and pavilion,

Park Furniture.

201 benches,
1 United States flag,
22 chairs.
1 desk,
1 stove,

Tools and Equipment.

Gardening.

1 horse lawn mower,
2 hand lawn mowers,
13 forks and rakes,
9 spades and hoes,
2 garden trowels,
7 pruners and shears,
27 scythes and sickles,
150 feet of hose and reel,
1 watering can,
12 scythe stones,

Miscellaneous.

28 mattocks, picks and shovels,
4 wheelbarrows,
1 paving rammer,
1 bench vise,
1 50-foot tape line,
3 ladders,
3 axes and hatchets,
1 set of brace and bits,
13 carpenter tools,
4 hammers and trowels,
1 block and fall,
31 sundries.

Materials.

10 pounds 20d. nails,
150 bricks.

RIVERSIDE PARK.

Buildings.

Office building,
Stable,
Tool house,
Wagon shed,
2 pavilions,
2 cart sheds,
2 public closets.

Park Furniture.

507 benches,
1 desk,
1 United States flag,
23 chairs,
2 stoves,
1 oil stove.

Live Stock.

2 horses.

Rolling Stock.

Express wagon,
Horse roller,
Sprinkling cart,
Watering cart,
3 carts.

Harness and Horse Furniture.

1 set wagon harness,
3 sets cart harness,
2 horse blankets,
2 oil skin covers,
2 curry combs,
2 mane combs.

Tools and Equipment.

Gardening.

2 horse lawn mowers,
2 hand lawn mowers,
8 spades and hoes,
20 forks and rakes,
1 harrow,
3 sections of hose and reel,
1 garden line and reel,
8 scythes and sickles,
10 pruners, knives and weeders,
10 sundries.

Miscellaneous.

29 shovels,
8 picks and mattocks,
6 hammers, hatchets and axes,
2 jack screws,
1 hand roller,
6 buckets and baskets,
5 carpenter tools,
1 brace and set of bits,
4 wheelbarrows,
1 block and fall,
1 grindstone,
14 sundries.

Materials.

75 pounds nails,
1 drain well grate,
50 sections T. C. pipe,
1,000 old asphalt blocks,
500 bricks.
75 pounds paint,
15 paint brushes,
40 gallons coal oil,
1 lot of lumber, old and new,

JOHNSTON PARK.

Buildings.

1 keepers' box with tool box and fixtures.

Park Furniture.

117 benches,
1 United States flag.

Tools and Equipment

Gardening.

2 hand lawn mowers,
4 scythes and sickles,
11 shears, pruners and rakes,
2 watering pots.
4 sections of hose and reel,
2 lawn sprinklers,
1 brass syringe,

Miscellaneous.

1 hand roller,
6 shovels and spades,
5 picks and mattocks,
11 carpenter tools,
1 paving rammer and shoe,
23 sundries.

Materials.

200 paving brick,
16 wire guard fences,
12 iron signs for rules,
1 sack of salt,
1 gallon paint.

MT. ROYAL TERRACES.

Buildings.

1 keeper's box, 1 tool house.

Park Furniture.

1 desk, 1 chair,
1 stove.

Tools and Equipment.

Gardening.

5 sections hose and reel, 7 pruners and shears,
3 hand lawn mowers, 7 forks and rakes,
3 weeders and knives, 3 spades and hoes,
2 sickles, 1 garden line and reel,
4 syringes and sprinklers, 3 sundries.

Miscellaneous.

2 wheelbarrows, 1 hand roller,
8 shovels, picks and mattocks, 3 hatchets, files and saws,
1 step-ladder, 3 hammers,
4 pinch bars and wrenches, 16 sundries.

Materials.

1 board.

BOLTON PARK.

Buildings.

Keeper's box, Tool house.

Park Furniture.

Desk, Small bench,
1 oil stove.

Tools and Equipment.

Gardening.

2 hand lawn mowers, 2 scythes and sickles,
4 sections of hose and reel, 3 spades and rakes,
1 garden line reel, 1 sprinkler,
1 watering pot, 6 reducers for hose.

Miscellaneous.

1 wheelbarrow, 3 hatchets, wrenches and hammers,
5 picks and shovels, 9 sundries.

COLLINGTON PARK.

Buildings.

1 keeper's box,
1 tool house.

Park Furniture.

1 chair,
1 desk,
2 stoves,
80 benches.

Tools and Equipment.

Gardening.

3 lawn mowers,
9 forks, rakes and spades,
2 shears and sickles,
350 feet of hose and reel,
1 brass syringe,
1 garden line and reel.

Miscellaneous.

12 shovels, picks and mattocks,
2 saws and hatchets,
3 wheelbarrows,
1 hand roller,
3 hammers and bars,
4 sundries.

Materials.

50 pounds nails,
10 section T. C. pipe,
1,000 bricks.

CARROLL PARK.

Buildings.

Mansion,
Pavilion,
Tool house,
Cart shed,
Tool shed,
Stable and wagon shed,
2 propagating houses,
2 closets.

Park Furniture.

140 benches,
18 chairs,
2 iron shoe scrapers,
12 lamps and lanterns,
2 stoves,
1 desk,
1 United States flag,
1 oil stove.

Live Stock.

2 horses.

Rolling Stock.

Express wagon,
Watering cart,
Small hand cart,
2 carts,
1 large roller,
1 small roller.

Harness and Horse Furniture.

1 set wagon harness,
2 sets cart harness,
1 rubber cover,
2 horse blankets,
2 curry combs,
1 pair horse clippers.

Tools and Equipment.

Gardening.

1 plow,
1 harrow,
1 Champion reaper,
1 horse lawn mower,
4 hand lawn mowers,
500 feet of hose and reel,
1 garden line and reel,
70 burlap and straw mats,
72 hot-bed sash,
25 forks, rakes, spades and hoes,
9 pruners and knives,
6 scythes and sickles,
7 watering pots and sprinklers,
11 sundries.

Miscellaneous.

8 wheelbarrows,
65 shovels, picks and mattocks,
13 hatchets, axes and saws,
9 pinch bars, files and wrenches,
1 50-foot tape line,
170-foot rope,
1 scoop,
10 carpenter tools,
5 wooden rollers,
3 step-ladders,
10 rammers and hammers,
1 grind stone,
5 pairs rubber boots,
1 brass alphabet,
14 buckets, baskets and brooms,
51 sundries.

Materials.

96 sections T. C. pipe,
13 drain well grates,
800 re-pressed shale brick,
4 cubic yards broken stone,
3 cubic yards building sand,
11 barrels cement,
12 cans paint,
120 linear feet wire border guard,
1 lot barbed wire,
1 lot of lumber,
9 tons coal (estimated).

CLIFTON PARK.

Buildings.

Mansion,
Superintendent's house,
Gardener's cottage,
Porter's lodge,
Conservatory,
Propagating house,
Repair shop,
Stable,
Corn crib,
Ice house, (not used),
Carriage house,
Small pavillion,
2 dwellings, (frame),
2 hay and straw sheds,
2 public closets.

Park Furniture.

24 chairs,
24 stools,
1 United States flag,
12 settees,
262 benches,
13 lamps and lanterns.

Live Stock.

6 horses.

Rolling Stock.

1 buggy,
1 dayton wagon,
2 four-horse wagons,
1 two-horse roller,
1 one-horse roller,
2 carts,
1 watering cart.

Harness and Horse Furniture.

2 sets double harness,
2 sets buggy harness,
4 sets cart harness,
3 sets plough harness,
1 wagon saddle,
1 horse card,
7 bridles,
8 collars.
7 halters,
4 collar pads,
1 breast strap,
8 curry combs and brushes.

TOOLS AND EQUIPMENT.

Farming.

1 three-horse plough,
2 two-horse ploughs,
1 one-horse plough,
2 single-shovel ploughs,
3 double-shovel ploughs,
1 triple tree,
2 pairs double trees,
2 harrows,
1 horse rake,
1 soil rubber,
1 seeder,
4 cultivators,
2 hay bodies,
1 wood body.
4 single trees.

Gardening.

2 two-horse mowers,
1 one-horse lawn mower,
3 hand lawn mowers,
4 watering cans and sprinklers,
12 scythes and hooks,
7 sieves and trowels,
300 feet ¾-inch hose and reel,
2 garden lines and reels,
14 spades and hoes,
30 forks and rakes,
17 pruners and knives,
5 sundries.

Repair Shop.

1 bench vice,
1 draw knife,
1 brace and bits,
2 augers,
1 wire stretcher,
2 pairs pipe tongs,
7 stone hammers,
2 trowels,
8 caulking tools,
4 monkey wrenches,
5 cold chisels and punches,
9 axes, hatchets and saws,
5 hammers and chisels,
13 sundries.

Miscellaneous.

26 picks and mattocks,
10 wheelbarrows,
2 tape lines,
1 block and fall,
21 shovels,
3 grind stones,
28 galvanized iron pans,
2 steel road scoops,
350 feet canvas fire hose and reel,
6 pumps,
9 rammers, mauls and wedges,
5 rat, mouse and mole traps,
14 buckets and pails,
24 sundries.

Materials.

5 drain well grates,
1 lot T. C. pipe,
8 tons coal (estimated),
Half barrel illuminating oil,
40 tons hay,
14 tons rye straw.

Department of Public Parks and Squares.

REPORT OF THE TREASURER.

BALTIMORE, December 31, 1898.

The Board of Public Park Commissioners, Baltimore, Md.:

GENTLEMEN:

I have the honor to submit herewith my report as Treasurer of the Department of Public Parks and Squares for the year ending December 31, 1898.

Very respectfully,

CHAS. G. LEONARD, *Treasurer.*

DRUID HILL PARK.

Disbursements for the Year Ending December 31, 1898.

Pay-roll	$59,469 16
Electric lighting	9,819 91
Supplies, general	3,262 64
Repairs, general	2,784 85
Food for show animals	1,401 07
Food for work animals	1,197 81
Repairs to buildings	976 69
Water supply	963 56
Miscellaneous	904 03
Supplies, gardening department	776 17
Uniforms	558 74
Fuel, gardening department	494 00
Horseshoeing	430 50
Office expenses	392 90
Lawn and agricultural machinery	366 57
Rolling stock	335 80
Horse furniture and stable supplies	299 75
Hardware	247 78
Fuel, keeper's boxes	232 74
Painter's supplies	195 60
Tools and implements	190 40
Gas and oil lighting	170 62
	$85,471 29

PATTERSON PARK.

Disbursements for the Year Ending December 31, 1898.

Pay-roll	$19,133 79
Electric lighting	2,034 07
Supplies, general	1,266 05
Supplies, gardening department	770 49
Fuel, gardening department	350 00
Repairs to building	318 70
Repairs, general	295 81
Painter's supplies	295 08
Lawn and agricultural machinery	253 36
Rolling stock	208 04
Gas and oil lighting	206 49
Food for work animals	139 22
Miscellaneous	137 27
Fuel, keeper's boxes	87 94
Tools and implements	71 69
Horseshoeing	47 25
Horse furniture and stable supplies	37 72
Office expenses	38 75
Uniforms	44 94
Water supply	42 36
Hardware	37 58
	$25,816 60

CARROLL PARK.

DISBURSEMENTS FOR THE YEAR ENDING DECEMBER 31, 1898.

Pay-roll	$12,349 81
Supplies, general	3,110 26
Filling material	2,387 90
Supplies, gardening department	1,085 83
Electric lighting	724 96
Miscellaneous	357 97
Repairs to buildings	207 15
Water supply	177 06
Painter's supplies	175 75
Food for work animals	138 76
Fuel, gardening department	87 90
Fuel, keeper's boxes	86 94
Horseshoeing	57 44
Repairs, general	52 35
Tools and implements	10 82
Gas and oil lighting	24 25
Uniforms	16 25
Hardware	15 42
Horse furniture and stable supplies	15 41
Office expenses	14 75
Lawn and agricultural machinery	14 46
Rolling stock	3 55
	$21,144 99

CLIFTON PARK.

DISBURSEMENTS FOR THE YEAR ENDING DECEMBER 31, 1898.

Pay-roll	$10,989 68
Water supply	1,726 96
Gas and oil lighting	901 20
Supplies, gardening department	723 41
Supplies, general	568 43
Miscellaneous	561 98
Rolling stock	316 05
Lawn and agricultural machinery	250 01
Fuel, gardening department	186 26
Repairs to buildings	174 93
Office expenses	142 95
Repairs, general	111 95
Food for work animals	71 20
Uniforms	59 48
Horse furniture and stable supplies	59 02
Tools and implements	41 04
Fuel, keeper's boxes	37 48
Horseshoeing	21 48
Painter's supplies	12 62
Hardware	6 60
	$16,962 73

RIVERSIDE PARK.

Disbursements for the Year Ending December 31, 1898.

Pay-roll	$4,983 18
Supplies, general	256 15
Water supply	104 80
Food for work animals	90 67
Rolling stock	86 90
Supplies, gardening department	76 07
Repairs to buildings	63 89
Miscellaneous	15 10
Uniforms	14 88
Gas and oil lighting	30 58
Lawn and agricultural machinery	19 75
Horseshoeing	18 00
Tools and implements	16 91
Painter's supplies	12 90
Repairs, general	8 95
Horse furniture and stable supplies	7 77
Fuel, keeper's boxes	4 85
Hardware	1 38
	$5,872 73

COLLINGTON PARK.

Disbursements for the Year Ending December 31, 1898.

Pay-roll	$2,589 68
Repairs, general	383 11
Supplies, gardening department	374 47
Supplies, general	346 26
Electric lighting	186 75
Miscellaneous	90 70
Water supply	71 09
Lawn and agricultural machinery	32 44
Painter's supplies	23 10
Hardware	11 00
Uniforms	8 94
Tools and implements	8 60
Office expenses	8 40
	$4,134 54

FEDERAL HILL PARK.

Disbursements for the Year Ending December 31, 1898.

Pay-roll	$2,200 08
Supplies, general	325 21
Repairs, general	194 77
Water supply	86 92
Miscellaneous	84 68
Supplies, gardening department	18 08
Gas and oil lighting	18 88
Lawn and agricultural machinery	15 67
Painter's supplies	10 00
Uniforms	8 94
Repairs to buildings	5 00
Fuel, keeper's boxes	4 34
Tools and implements	1 48
Office expenses	50
	$3,004 55

JOHNSTON PARK.

DISBURSEMENTS FOR THE YEAR ENDING DECEMBER 31, 1898.

Pay-roll	$1,919 51
Supplies, gardening department	110 55
Supplies, general	73 89
Miscellaneous	19 00
Tools and implements	12 02
Painter's supplies	8 60
Lawn and agricultural machinery	7 67
Fuel, keeper's boxes	6 19
Repairs, general	4 50
Office expenses	1 00
Repairs to buildings	16
	$2,163 09

MT. ROYAL PARK.

DISBURSEMENTS FOR THE YEAR ENDING DECEMBER 31, 1898.

Pay-roll	$1,389 17
Supplies, general	58 25
Gas and oil lighting	15 00
Supplies, gardening department	10 70
Tools and implements	9 45
Painter's supplies	8 52
Lawn and agricultural machinery	7 50
Office expenses	2 50
Miscellaneous	2 00
Hardware	1 84
Water supply	1 03
	$1,505 96

BOLTON PARK.

DISBURSEMENTS FOR THE YEAR ENDING DECEMBER 31, 1898.

Pay-roll	$791 65
Supplies, general	336 51
Supplies, gardening department	103 07
Repairs, general	62 94
Repairs to buildings	54 00
Lawn and agricultural machinery	11 90
Tools and implements	9 54
Miscellaneous	8 00
Rolling stock	4 32
Painter's supplies	3 05
Water supply	40
	$1,385 38

STATEMENT OF RECEIPTS AND EXPENDITURES

Receipts.

Balance from 1897	$4,243 91
Baltimore City Passenger Railway Company	85,890 21
Consolidated Railway	142,373 26
Central Railway	17,901 36
Baltimore and Northern Railway	2,535 05
Rentals, Druid Hill Park	540 00
" Clifton Park	383 33
" Observatory, Federal Hill Park	37 50
Privileges, fish propagation	500 00
" boating, Druid Hill Park	100 00
" swings, " " "	10 00
Sales, sheep, Druid Hill Park	811 00
" camels, " " "	200 00
" mules, " " "	75 00
" wool, " " "	133 38
" wood, " " "	34 00
" old material, Druid Hill Park	7 79
" old material, Patterson Park	312 82
" produce, Clifton Park	235 21
" wood, " "	79 40
" horses, " "	37 00
Fines, various parks and squares	252 00
Unexpended balances from various parks and squares	703 05
	$257,395 27

FOR THE YEAR ENDING DECEMBER 31, 1898.

Expenditures.

Interest on Patterson Park extension and Clifton Park loans	$34,512 50
Sinking funds	9,701 89
Car-fare register inspection	664 80
Druid Hill Park	85,471 29
Patterson Park	25,816 60
Carroll Park	21,144 99
Clifton Park	16,962 73
Riverside Park	5,872 73
Federal Hill Park	3,004 55
Collington Park	4,134 54
Johnston Park	2,163 09
Mt. Royal Terraces	1,505 96
Bolton Park	1,385 38
Ashland Square	122 00
Broadway Squares—first division	1,850 00
Broadway Squares—second division	1,707 50
Broadway Squares—third division	1,913 00
Eastern fountain	1,050 00
Eutaw Place Squares—first division	1,700 00
Eutaw Place Squares—second division	1,800 00
Franklin Square	1,200 00
Fulton Avenue Squares	2,000 00
Harlem Park	2,500 00
Jackson Square	900 00
Lafayette Square	1,500 00
Madison Square	1,675 00
Mt. Royal Squares	1,000 00
Mt. Vernon Squares	1,500 00
Park Place Squares	800 00
Perkins Spring Square	1,350 00
Taney Place Squares	550 00
Union Square	1,300 00
Wilkens Avenue Squares	2,000 00
Linden Triangle	25 33
Green Spring Avenue, surveys and plats	279 49
Office expenses, City Hall office	3,983 88
Office expenses, engineer's office	5,882 96
Balance	6,165 06
	$257,395 27

STATEMENT SHOWING AMOUNTS APPROPRIATED, AMOUNTS EXPENDED AND UNEXPENDED BALANCES RETURNED FROM THE VARIOUS PARKS AND SQUARES FOR THE YEAR ENDING DECEMBER 31, 1898.

Parks and Squares.	Appropriation.	Expended.	Balance Returned.
Ashland Square	$122 00	$113 17	$8 83
Broadway Squares, 1 division	1,850 00	1,792 10	57 90
" " 2 "	1,707 50	1,692 01	15 49
" " 3 "	1,913 00	1,912 80	20
Eastern Fountain	1,050 00	1,005 06	44 94
Eutaw Place Squares, 1 division	1,700 00	1,699 48	52
" " " 2 "	1,800 00	1,742 88	57 12
Franklin Square	1,200 00	1,199 40	60
Fulton Avenue Squares	2,000 00	1,999 57	43
Harlem Park	2,500 00	2,496 57	3 43
Jackson Square	900 00	890 20	9 80
Lafayette Square	1,500 00	1,256 14	243 86
Madison Square	1,675 00	1,663 27	11 73
Mt. Royal Squares	1,000 00	847 30	152 70
Mt. Vernon Squares	1,500 00	1,500 00	.....
Park Place Squares	800 00	716 18	83 82
Perkins Spring Square	1,350 00	1,349 32	68
Taney Place Squares	550 00	543 15	6 85
Union Square	1,300 00	1,300 00	.....
Wilkens Avenue Squares	2,000 00	1,995 85	4 15
	$28,417 50	$27,714 45	$703 05

ANNUAL REPORT

— OF THE —

TRUSTEES OF THE POOR

OF THE CITY OF BALTIMORE,

— TO THE —

Mayor and City Council of Baltimore.

— FOR THE —

FISCAL YEAR ENDING DECEMBER 31st, 1898.

TRUSTEES OF THE POOR.

ELISHA H. PERKINS, *President.*

JOSEPH GRAPE, *Secretary.*

MARY SHERWOOD, M.D.

MARY G. ECCLES.

WILLIAM T. PRIME.

FRANK S. LEWIS, D.D.S.

JOHN W. BOND.

OFFICIAL STAFF.

CITY OFFICE,

CITY HALL ANNEX,

N. GAY STREET, BETWEEN LEXINGTON AND SARATOGA STS.

Permit Clerk, - - - - - LORENZO B. GOUGH.

Assistant Clerk, - - - - - MRS. E. DUVALL.

REPORT.

BALTIMORE, December 31, 1898.

To the Honorable the Mayor and City Council of Baltimore:

GENTLEMEN: The undersigned, Trustees of the Poor, beg leave herewith to submit their first annual report:

This department of the city government, which involves many problems and much responsibility, includes the care of the worthy old people of Baltimore who have none who can care for them; a number of hospital wards full of medical and surgical cases; a large insane population; a number of imbecile and epileptic children; decrepit old men; a class of vagrants committed by magistrates, growing less in number; the supervison of the city beds, aggregating 375 in nine hospitals, and the administration of "the fund for the transportation of the poor to their homes," all involving, during 1898, the responsibility for the expenditure of a sum amounting to $162,230.

CITY OFFICE.

APPLICATION BUREAU.

The policy of careful investigation of individual cases applying for care in the almshouse, the hospitals, or for transportation to their homes, has been continued during the past year with great satisfaction. The success of this work has been due, in large measure, to the untiring energy of our city office officials.

The data thus collected here made it possible for us to discriminate in favor of those who are a legitimate charge upon the city, and to refer to their proper source those entitled to receive aid at other hands.

We desire to note the continuance of our friendly relations with the various charitable agencies of the city and State, and also the encouragement we have received from many individuals interested in our work.

HOSPITAL SUPERVISION.

Throughout the year, the friendly relations between the Trustees of the Poor and the hospitals have continued, and our officials at the city office have received courteous consideration from the several resident physicians in their efforts to investigate the merits of individual cases. The tax-paying citizens of Baltimore, and those interested in the care of the city poor, may have the satisfaction of knowing that while no deserving sick persons have failed to receive hospital care, still there have been very few cases in which the city has been permitted to pay the expense of those not entitled to receive city care.

The following table shows the number of persons cared for each month by the city, in the nine hospitals to which city patients may be sent. This number is exclusive of cases sent to Bay View Hospital. The total appropriation for the year for this purpose was $56,480.00. Of this amount $5,852.44 remained unexpended at the end of the year. This saving is noteworthy, in view of the fact that grippe and typhoid have been unusually prevalent, and also that the war with Spain has brought to Baltimore many persons who have received necessary temporary care.

TABLE SHOWING NUMBER OF CITY PATIENTS TREATED IN NINE (9) HOSPITALS; NUMBER OF DAYS PAID FOR, AND SUM EXPENDED FOR EACH MONTH OF THE YEAR 1898.

Month.	*Number of Patients.*	*Number of Days.*	*Cost.*
January	680	9,332	$4,332 66
February	689	10,079	4,627 48
March	648	9,057	4,201 32
April	682	9,474	4,398 57
May	629	8,720	4,048 49
June	666	9,138	4,243 10
July	658	9,232	4,292 26
August	718	9,902	4,597 28
September	657	9,029	4,192 03
October	642	6,351	3,877 20
November	615	7,983	3,892 10
December	561	8,424	3,925 07
Total	7,845	106,721	$50,627 56

Appropriation	$56,480 00	for 1898.
Expended	50,627 56	" "
Saving	$5,852 44	
Appropriation for 1897 was	$63,375 00	
Expended " "	53,444 88	
Saving	$9,930 12	

TRANSPORTATION FUND.

The desirability of careful investigation of cases applying for aid, is brought out forcibly in the report of the expenditure of the "Fund for the Transportation of the Poor to their Homes and expense incidental thereto."

Of the whole number 514 whose cases were investigated, only 189 (34.8 per cent.) were found to need aid, 108 cases withdrew their applications on finding that it would be necessary to answer certain questions as to their antecedents and future plans. It is interesting to note that of the whole sum expended, $76.12 (11.1 per cent.) was returned by the beneficiaries after arriving at their destination.

In this connection we beg to express our appreciation of the courtesy shown by the different railroads and steamboat companies in their dealings with the unfortunate stranded poor.

The Pennsylvania Railroad has arranged for charity fares to distant points. The York River Line has recently handled all our Southern bound passengers, transferring them to the railway systems running out of Norfork, Va., at half-fare to the end of their journey.

We also continued our pleasant relations with other railroads granting us "charity rates."

REPORT OF PERMIT CLERK OF TRUSTEES OF THE POOR IN REGARD TO TRANSPORTATION OF POOR TO THEIR HOMES, FROM JANUARY 1, 1898, TO DECEMBER 31, 1898, INCLUSIVE.

Months.	Whole Number of Applicants.	Number of Applicants Honored.	Number Rejected for Cause.	Amount Paid for Fares.	Cash Received from Applicants.	Real Cost to City.	Amount Refunded to City.
January	48	11	37	$30 17	$7 92	$22 25	$7 92
February	26	8	18	36 37	.....	36 37	.....
March	49	18	31	64 71	10 10	54 61	10 10
April	46	22	24	37 98	4 70	33 28	4 70
May	34	11	23	25 58	.....	25 58	.....
June	52	6	46	20 65	.....	20 65	.....
July	46	19	27	46 63	.....	46 63	.....
August	45	17	28	45 50	10 00	35 55	10 00
September	33	15	18	88 87	.....	88 87	.....
October	41	19	22	58 35	28 95	29 40	28 95
November	54	28	26	106 73	6 25	100 48	6 25
December	40	15	25	40 34	8 20	32 14	8 20
Totals	514	189	321	$601 93	$76 12	$525 81	$76 12

Received and investigated	514	
Approved	189	
Paid for wholly by city	154	
Paid for by friends	25	
Money returned by beneficiaries	$76 12	
Total amount appropriated by city		$750 00
" " expended		685 53
		$64 47

Received from City Register for Southern Railroad fares and postage stamps and incidental expenses, $83.60.

One hundred and eight persons made application for transportation who refused to be investigated.

Seventy-five letters were returned by postal service of persons whose addresses, furnished by applicants, were not found.

BAY VIEW ASYLUM.

The Board commends the reports, which follow, to your careful consideration. It will be noted that while the entire amount of money appropriated for the support of Bay View Asylum for 1898 has been expended, yet a very gratifying proportion has been devoted to permanent and most desirable improvements.

In looking over the first and second reports of our immediate predecessors, it is very interesting to note the evils and needs they call attention to, and what has been accomplished in reference thereto.

In their first report they deplore the number of paupers, habitual beggars and vagrants committed to Bay View, stating the number of commitments to have been 121 during the year, and referring to the difficulty of keeping them, as the asylum is not a reformatory, and the buildings and grounds do not provide for holding committed persons. They deplore the overcrowded condition of the insane wards, and hope for partial relief from the opening of the new Springfield Asylum, but insist that the State should ultimately care for *all* its insane. They state the need for a pavilion ward for the imbecile children under their care, and one for the aged and infirm men. They are strongly impressed with the need of isolating cases of tuberculosis, typhoid fever and other diseases of an infectious nature. They also urge need of improved sewerage system. They furnish pick-axe and shovel work upon a system of grading and terracing the grounds, which, without hardship to any, reduces the population by three hundred, as the "transient" class do not enjoy working for their daily bread.

Turning to their second report, we find they report 192 persons committed during the year, 71 more than preceding year; but note that they have called the attention of the magistrates at a pleasant conference held with them, by invitation, at the asylum, to the fact that paupers, habitual beggars, vagrants, etc., can only be committed for a first offense to the asylum, and then only for two months. They provide for the imbecile children, in a pavilion ward. They make a good start with a new sewerage system. Besides, they erect a new kitchen, and provide an ice-making plant, with abundant cold storage; build a two-story

lavatory annex on female side of house, supplied with modern apparatus; greatly improve the hospital wards, supplying many new bedsteads and mattresses; and improve several departments of the building, such as the drug-room, and male dining-rooms, and begin the improvement of the diet in quality and suitability. They continue the outdoor work on the grounds with good results. They made some changes in the official staff, added two or three skilled persons of special fitness, rearranged some departments and duties, all of which resulted in greatly increased efficiency. They urge that a lavatory annex be provided for males, the overhauling of steam-plant and the laundry, and other betterments.

The present Trustees began their term of service with a sincere desire to carry forward and emulate the success of their predecessors.

ORGANIZATION.

They have not found it necessary to make many changes. Those made have been with careful deliberation, and for the greater efficiency of the service.

After consultation with all interested, a change was made in the arrangement of the medical and surgical department, at the time of the annual appointments, involving single rather than dual headship, which has proven wise. The Medical and Surgical Staff now consists of one chief resident and four assistant residents. The opportunity was taken to carefully revise the rules and regulations of the medical and surgical service of the asylum, and that of the insane department, with excellent results in efficiency and co-operation.

OUT-DOOR WORK.

This has been continued for the able-bodied inmates, including the insane as far as possible, to their great betterment in general health; but the improvement of the grounds therewith has made slow progress, because since the departure of the "transients" in such large numbers, on account of the work required of them, we have comparatively few who can do such work, over and above those required to carry on the regular garden and other work, inside and out of the buildings.

DIET.

We have been able to carry forward the improvement in diet, especially for the insane, and make some additions thereto. We hope, during the coming year, to make an even more decided change for the better.

INSANE DEPARTMENT.

We have been enabled in some minor matters to bring about improvement in the insane department.

The removal to "Springfield" of 127 white males has enabled us to make a better classification of those remaining. Two female attendants to act as night nurses have been added to the force. The dietary has been improved; chairs instead of benches have been placed in some of the dining-rooms; the heating facilities have been improved by the adoption of the Hawley down-draft system.

Through the kindness of the ladies of the "Association for the Employment of the Insane," the bathing facilities in the woman's building will be increased by the equipment of a new bath-room, fitted with Gegenstrom rain-baths, and perfectly sanitary in all its appliances. The over-crowded condition of several of the wards in the woman's building, especially the colored ward, make necessary some provision, in the near future, for relief.

It has recently been found that the city ordinance, which provides that a person believed to be insane may be committed to a city or State institution, on the certificate of two physicians, is in conflict with the State law, which provides that no person shall be deprived of life, liberty or property without due process of law. In other words, these unfortunate wards of the city—the pauper insane—suffering from definite disease, must be brought before the Criminal Court, or before a jury empaneled by a sheriff for the purpose, and by criminal process adjudged insane, before they may receive the city's charity. We would strongly advocate the complete removal of the insane from the almshouse to State hospitals. We would also, as Trustees of the Poor, join in the efforts of those who are endeavoring to bring about a rational change in the State Lunacy Laws, in the matter of commitment of the insane.

There is still greatly needed in the city a place for detention of cases pending the commitment to hospitals.

PERMANENT IMPROVEMENTS.

By means of careful watchfulness over expenditure the present Board has been able to make long desired permanent additions to the plant; some of them suggested by our predecessors.

HOSPITAL ANNEX.

A two-story brick building, 116 feet by 36 feet, heated by steam and lighted by electricity, has been erected within easy reach of the main building. There is no communication in the building between the floors. On the first story, we have the chronic senile cases, white and colored in separate rooms, and on the second, the consumptive cases, similarly separated. The chronic senile cases were formerly housed in old and wholly unfit frame buildings, in the woods at a distance, while the consumptives were in crowded rooms in the main building. The improvement is great in every way.

STEAM-HEATING PLANT.

Hawley down draft furnaces have been put under two of our boilers, so that with no greater consumption of coal the same boilers give increased heat for all the buildings, and in addition thoroughly heat the new hospital annex. Many new radiators have been provided, and a number of minor improvements made in connection with the engineer's department.

MALE LAVATORY.

The major part of the material for this, including three sun corridors and two additional sun corridors for female side, thus connecting the several floors of the two wings with the main house, has been purchased.

NEW STABLE AND CARRIAGE HOUSE.

The material for this has been provided, and its erection this year will result in much better quarters for our 36 cows, which supply all the milk for the institution.

MINOR IMPROVEMENTS.

A number of these, such as a board-walk from the entrance gate to centre house, sleeping-room addition for the keeper of the entrance (or arch) gate, etc., will be noted in the report of the Superintendent.

NEEDED IMPROVEMENTS.

Like its predecessors, the Board feels that attention must be given to some alterations and betterments during the year. The kitchen of the centre house, and the laundry, need new and enlarged quarters and improved appliances.

CLOSING SUGGESTIONS.

The Trustees feel that they should be entirely relieved from care of persons committed for being vagrants, habitual beggars, etc., except those who are aged or very infirm. If the House of Correction is not suitable for vagrants or habitual beggars, a house of detention, where they could be taught useful occupations, for perhaps indeterminate sentences, might be provided under the authority of the New Charter. In this connection, it may be stated, that the conference with the magistrates by our predecessors has resulted this year in a decrease of 44 in the number of those committed to our care.

The Trustees desire to bear earnest testimony to the faithfulness and zeal displayed by the official staff of the department under their care. Also to the efficient service of the Medical and Surgical Staff, both resident and visiting.

Respectfully submitted.

ELISHA H. PERKINS, *President.*
JOSEPH GRAPE, *Secretary.*
MARY SHERWOOD, M. D.
MARY G. ECCLES.
WILLIAM T. PRIME.
FRANK S. LEWIS, D.D. S.
JOHN W. BOND.

FINANCIAL STATEMENT.

Amount of appropriation for 1898		$105,000 00
Amount of appropriation withdrawn on vouchers by Trustees of the Poor	$104,989 42	
Amount of appropriation unexpended	10 58	
		105,000 00

CLASSIFIED EXPENDITURES.

Provisions, general supplies, light, fuel, salaries		$88,255 04
Repairs and Ordinary Improvements, viz.:		
Labor and materials resetting boilers and hot-water heaters	$788 78	
Two new steam kettles, general kitchen	153 00	
Renewal eight bath-tubs and twenty-six radiators	317 80	
Supplies, general repairs account—Engineer's department	686 07	
New flooring, general repairs account	228 11	
New fencing, general repairs account	260 56	
Roofing, spouting, gen'l repairs account	156 49	
Ten dozen new chairs, replacing old ones	110 00	
Lumber, lime, hardware, etc., general repairs account	482 26	
Paints, oils, lead, etc., general repairs account	554 27	
		3,737 34
Special Improvements—		
New hospital and equipment—total cost $8,806 67; Less payments 1897 1,572 83	$7,233 84	
Lavatory, female wing—total cost $2,685 37; Less payments 1897 2,457 58	227 79	
Addition to lodge at main entrance and improvement of grounds attached	280 71	
Board-walk from main entrance to main building	196 09	
Two Hawley down-draft furnaces attached to boilers	1,600 00	
Refitting hospital in clinical, pathological and culinary departments	680 58	
24 new beds and 133 new spring beds	419 25	
New house 'phones, stationary wash-stands, etc	71 00	
Material for five sun porches, carriage-house, hog-house and wagon-shed	1,855 78	
		12,565 04
Per diem, Board of Trustees		432 00
		$104,989 42
Amount of appropriation unexpended		10 58
		$105,000 00

Amounts received on following accounts and paid to City Register, in compliance with City Ordinance—		
Board of inmates	$1,013 00	
Sales of old material	173 52	
		$1,186 52

TABLE SHOWING DIVISION OF DISBURSEMENTS.

Administration		$9,604 18
General house		31,486 89
Insane		25,042 94
Hospital		22,783 72
Farm		3,506 65
		$92,424 38
Less revenue returned to City Register		1,186 52
		$91,237 86
Average census, $1.186\frac{4}{12}$.		
Net cost per capita as to maintenance, including all departments, 1897, $\$71.51\frac{4}{100}$; 1898, $76.90\frac{74}{100}$.		
Special improvements		12,565 04
		$103,802 90
Gross cost per capita, 1897, $\$80.60\frac{90}{100}$; 1898, $\$87.49\frac{89}{100}$.		
Expended of appropriation	$104,989 42	
Less revenue returned to City Register	1,186 52	
		$103,802 90

REPORT AND TABULAR STATEMENT

—— OF THE ——

SUPERINTENDENT,

MARKED "A" TO "J,"

FOR THE YEAR 1898.

OFFICIAL STAFF.

BAY VIEW ASYLUM.

Superintendent,	LOUIS F. ZINKHAN.
Clerk and Purveyor,	JOHN E. DORSEY.
Head Matron,	MISS N. E. WORSLEY.
Centre-House Matron,	MISS MINNIE HILLEGIST.
Head Nurse,	MISS ATHALIA LORD.
Apothecary,	A. W. McGLANNAN, PH. G.
Engineer,	JAMES J. FARRELL.
Assistant Engineer,	WILLIAM H. STEVENS.
Farmer and Gardener,	WILLIAM T. REESE.
Messenger,	OSCAR NAGLE.
Baker,	E. C. THOMAS.
Supervisor—Insane Dep't (Male)	LOUIS WINKLER.
Supervisor—Insane Dep't (Female),	MRS. EMMA GREENFIELD.

REPORT OF THE SUPERINTENDENT.

BAY VIEW ASYLUM, December 31, 1898.

To the President and Board of Trustees of the Poor:

During the year 1898 Bay View Asylum has taken care of 2,903 people. The whole number of admissions for the year was 1,561. Of these, 213 were readmissions. The highest number present at any one time was 1,386 on the 12th day of February, and the smallest number was 1,055 on the 11th day of June.

The daily average has been $1,186\frac{1}{2}$, as against $1,278\frac{8}{12}$ for the year 1897, and $1,375\frac{6}{12}$ for the year 1896.

The decrease in the population was confined to the white males. The decrease was brought about by the transfer of 127 of our white male patients from the insane department here to the second hospital for the insane at Springfield.

Great care has been taken to receive only such patients as were fairly entitled to the charities of the city. All cases were carefully investigated, both at the city office and at the asylum. By this system no worthy applicant is made to suffer, whilst the impostor is dealt with as he deserves.

The asylum is made as bright and homelike as possible, so as to dissipate the horror which many aged persons have of the almshouse. Our baths are modern, the dormitories bright and comfortable, all the apartments are clean, the food is wholesome, and the treatment humane and considerate.

To bring good cheer to the inmates we have entertainments in the centre-house and dances in the insane department every two weeks.

Whilst our general population has been less than for some years past there have been more old chronic cases received, and the hospital cases have increased very much. Our hospital wards have been crowded, and, indeed, would not have accommodated all the

patients if we had not put up the new Hospital Annex for our consumptives. Many patients received during the year, mainly chronic cases from city hospitals, were in the hopeless stage when brought to us, and consequently our death rate was increased. The increase in the death rate was in the female hospital and insane departments; and the death average much larger among colored patients than among the white.

During the year 148 persons were committed to the asylum by police magistrates as vagrants. In 1897 the number was 192, thus showing a decrease of 44 in the number committed. This decrease is accounted for, first, in that some of the magistrates are more discriminating; and second, in that as the law forbids a commitment to the asylum for the second or following offence, we refuse to receive persons who have been committed more than once. Should not the system of committing paupers and habitual beggars and vagrants to Bay View Asylum by magistrates be carefully considered by the Trustees?

The institution has been in need of many improvements, and a number of these have been made during the year.

The best improvement is the Hospital Annex, which provides so comfortably for the old decrepit male patients, who were formerly housed in old frame buildings in the woods, and for the consumptives, who are kept on the second floor of this building. There is no more comfortable phthisis ward anywhere in the city of Baltimore.

A number of changes have been made in the insane department. Dr. R. E. Garrett, the chief resident physician, has with indomitable energy improved the condition and comfort of his wards. The two sexes are now in entirely separate buildings; the diet has been improved; the dormitories brightened; better bedding provided; physical restraints greatly diminished, and as far as possible employment has been given to all those able to work. Female night attendants have also been provided. The great present need in the insane department is a modern bath. The materials for this have been promised by a society of ladies, who are much interested in our insane women, "The Board of Managers of the Society for the Employment of Insane Women."

Our clinics have been refitted; the hospital lavatories and wards have been improved, and a larger force of nurses provided. Several new sun corridors will soon be added to our hospitals.

Other improvements completed are the new board walk leading to the arch-gate; increasing our steam power; securing several new steam cooking kettles in the county and diet kitchens, and improving the lighting of our grounds by night. The arch-gate has also been much improved, and old fences have been replaced with new ones.

The most of our improvements are made by inmate labor. Many trades are represented, and all who are able to work are required to do so. Three-fourths of all the garments worn in the institution are made and mended by inmate labor.

The farm has been cultivated, but the crops yielded were below the average, due largely to heat and drouth. We have raised a number of pigs, and we have a good herd of 36 cows, which provide all the milk for the institution.

Religious services have been held nearly every day in the year, and many devoted religious workers have visited the wards with bright faces and messages of hope. To all these we express our gratitude and appreciation, as well as to the many friends who have furnished the inmates with delightful evening entertainments, refreshments and literature.

Our officers have all done faithful and efficient work during the year.

I am most grateful to the Trustees for their hearty interest, counsel, co-operation and support.

Very respectfully,

LOUIS F. ZINKHAN.

TABLE A.

Showing the Number of Persons Admitted, Born, Died, Discharged, Escaped, etc., the Number Remaining at the End of Each Month, and a Comparison with 1897.

1898.	Admitted.		Born.		Died.		Discharged.		Escaped.		Granted passes and did not return.		Remaining.	
	1898	1897	1898	1897	1898	1897	1898	1897	1898	1897	1898	1897	1898	1897
Jan....	145	192	1	2	22	18	93	51	1	5	7	8	1365	1479
Feb....	138	151	1	1	20	22	96	119	3	3	14	10	1371	1477
Mar....	154	111	.....		22	17	249	185	5	5	14	12	1235	1372
Apr	105	114	2	3	27	21	116	170	6	4	10	13	1183	1281
May....	98	117	.....		22	16	164	219	9	2	11	10	1075	1151
June ...	120	127	1	2	13	15	79	77	4	4	6	8	1094	1176
July....	137	143	....	2	27	19	91	83	....	9	10	8	1100	1202
Aug....	90	122	1	1	16	12	81	95	1	4	6	11	1087	1203
Sept ...	101	135	.....		23	21	69	79	1	5	5	7	1090	1226
Oct	136	110	1	2	21	25	55	83	7	3	9	10	1135	1217
Nov....	151	146	1	....	17	15	58	65	1	2	3	8	1208	1273
Dec....	178	185	....	2	19	16	65	97	6	1	2	4	1294	1342
Tot'ls.	1553	1656	8	15	249	217	1219	1223	44	47	97	109	.....	.....

	1898.	1898.	1897.	1897.
In the Asylum December 31, 1897....	1342	.....	1367	.....
Total ingress (inc. readmissions)...	1561	2903	1671	3038
Total egress.....		1609	.....	1696
In the Asylum December 31, 1898....	.....	1294	.....	1342

SUPPLEMENT TO TABLE A.

Showing the Number of Single Admissions and Readmissions; also a Comparison with 1897.

	1898.	1897.
Single admissions.....	1348	1426
Readmissions.....	213	245
	1561	1671

1898.	1897.		
136	164	Admitted to Asylum.....	2 times.
29	31	" " "	3 "
5	1	" " "	4 "
1	4	" " "	5 "

TABLE B.

Showing the Birth-place of Persons Admitted to the Almshouse from January 1, 1898, to December 31, 1898, also a Comparison with 1897.

NATIVES.	1898.	1897.
Baltimore	482	523
Maryland	228	196
Virginia	106	102
Pennsylvania	56	72
New York	54	49
District of Columbia	21	18
North Carolina	18	18
Ohio	13	14
Massachusetts	11	18
New Jersey	8	11
Delaware	8	9
Louisiana	5	4
West Virginia	5	.....
Missouri	3	4
Wisconsin	3	2
South Carolina	3	11
Illinois	2	2
Alabama	2	1
Minnesota	2	.....
Maine	2	1
Connecticut	2	5
New Hampshire	2	.....
Vermont	1	3
California	1	1
Mississippi	1	1
Oregon	1	.....
Rhode Island	1	1
Arkansas	1	....
Kentucky	1	4
Georgia	1	4
Florida	1	.....
Michigan	1	2
Tennessee	.....	3
Indiana	.....	1
Indian Territory	.....	1
Unknown	12	12
Almshouse	8	15
	1,066	1,108

FOREIGNERS.	1898.	1897.
Ireland	234	234
Germany	165	203
Italy	5	8
Russia	17	13
England	16	39
Scotland	12	13
Poland (Russian)	12	10
Austria	7	8
France	6	10
Sweden	4	5
Denmark	3	1
West Indies	2	1
Wales	3	.....
Australia	2	1
Spain	1	1
Africa	1	.....
Jamaica	1	.....
Mexico	1	.....
Belgium	1	1
Norway	1	.....
Switzerland	1	3
Canada	.....	4
Finland	.....	2
Cuba	.....	4
Greece	.....	1
Nova Scotia	.....	1
	495	563
	495	563
Natives	1,066	1,108
	1,561	1,671

TABLE C.

Showing the Ages of Persons Admitted to the Almshouse from January 1, 1898, to December 31, 1898; also a Comparison with 1897.

	1898.	1897.
Under 1 year	1	3
From 1 year to 10 years	3	2
" 10 " " 20 "	40	52
" 20 " " 30 "	236	223
" 30 " " 40 "	265	295
" 40 " " 50 "	330	394
" 50 " " 60 "	279	312
" 60 " " 70 "	247	229
" 70 " " 80 "	123	116
" 80 " " 90 "	25	21
" 90 " " 100 "		2
At 104 years	1	
Unknown	3	7
Born in Almshouse	8	15
Totals	1,561	1,671

TABLE D.

Showing the Period of Residence in the City of All Persons Admitted to Almshouse from January 1, 1898, to December 31, 1898, also a Comparison with 1897.

	1898.	1897.
Born in Baltimore	481	523
Less than one week	67	76
One week and less than one month	24	32
One month and less than three	27	38
Three months and less than six	31	35
Six months and less than twelve	24	38
One year and less than two	18	18
Over two years	864	886
Unknown	17	20
Born in Almshouse	8	15
	1,561	1,671

TABLE E.

Showing Daily and Monthly Averages of Persons Remaining in Almshouse from January 1, 1898, to December 31, 1898, also a Comparison of Averages with 1897.

1898.	White.			Colored.			Total Daily Averages.		Where from				Totals.	
	Men	Women.	Children.	Men.	Women.	Children.	1898.	1897.	Natives of city and one year's residence. 1898.	1897.	Elsewhere. 1898.	1897.	1898.	1897.
January	715	401	9	110	119	1	1,355	1,411	1,326	1,208	29	203	1,355	1,411
February	731	395	10	114	125	1	1,376	1,480	1,349	1,274	27	206	1,376	1,480
March	654	392	12	121	130	....	1,309	1,433	1,274	1,227	35	206	1,309	1,433
April	545	393	13	120	130	....	1,201	1,314	1,167	1,106	34	208	1,201	1,314
May	495	381	13	115	131	1	1,136	1,207	1,116	998	20	209	1,136	1,207
June	446	376	10	106	133	1	1,072	1,161	1,054	952	18	209	1,072	1,161
July	453	388	8	109	136	1	1,095	1,191	1,075	980	20	211	1,095	1,191
August	443	383	8	112	136	....	1,082	1,200	1,067	987	15	213	1,082	1,200
September	443	382	8	115	137	....	1,085	1,199	1,071	977	14	222	1,085	1,199
October	465	386	7	114	135	1	1,108	1,216	1,086	981	22	235	1,108	1,216
November	505	391	7	120	138	2	1,163	1,246	1,139	1,009	24	237	1,163	1,246
December	572	396	7	131	146	2	1,254	1,286	1,220	1,040	34	246	1,254	1,286
Totals	6,467	4,644	112	1,387	1,596	10	14,236	15,344	13,944	12,739	292	2,605	14,236	15,344
Monthly averagings, 1898.	$538\frac{11}{12}$	$388\frac{8}{12}$	$9\frac{4}{12}$	$115\frac{7}{12}$	133	$\frac{10}{12}$	$1,186\frac{4}{12}$	.....	1,162	.....	$24\frac{4}{12}$	.....	$1,186\frac{4}{12}$	.....
Monthly averagings, 1897.	$653\frac{4}{12}$	$380\frac{9}{12}$	$11\frac{5}{12}$	$113\frac{4}{12}$	$117\frac{8}{12}$	$2\frac{2}{12}$	.....	$1,278\frac{8}{12}$	.....	$1,061\frac{7}{12}$	.....	$217\frac{1}{12}$	.....	$1,278\frac{8}{12}$

TABLE F.

Showing the Number of Persons Committed to the Almshouse by Magistrates, and their Age, Sex, Color and Period of Commitment, from January 1, 1898, to December 31, 1898; also a Comparison with 1897.

1898.	Sex and Age.					Period of Commitment.				
	White Males, 19 yrs. and over.	White Females, 22 yrs. and over.	Colored Males, 36 yrs. and over.	Colored Females, 17 yrs. and over.	Totals.	One Week.	One Month.	Two Months.	Three to Six.	Totals.
January	6	4	2	2	14	.....	.....	14	.....	14
February	6	2	3	2	13	.....	.....	13	.....	13
March	12	2	2	1	17	.....	.....	17	.....	17
April	11	1	2	2	16	.....	.....	16	.....	16
May	1	4	2	.....	7	.....	.....	7	.....	7
June	4	3	.....	2	9	.....	2	7	.....	9
July	5	6	.....	2	13	.....	.....	13	.....	13
August	5	1	4	1	11	.....	.....	11	.....	11
September	4	2	.....	.....	6	.....	1	5	.....	6
October	13	5	1	1	20	.....	2	18	.....	20
November	5	3	1	.....	9	1	.....	8	.....	9
December	8	2	2	1	13	.....	.....	13	.....	13
Totals 1898	80	35	19	14	148	1	5	142	.....	148
Totals 1897	106	46	30	10	192	.....	4	184	4	192

TABLE G.

Showing the Birthplace of Persons Committeed to the Almshouse as Vagrants, etc., by Magistrates and Criminal Court, from January 1, 1898, to December 31, 1898; also a Comparison with 1897.

Natives.	1898.	1897.	Foreigners.	1898.	1897.
Baltimore	47	54	Ireland	21	22
Maryland	32	30	Germany	12	22
Pennsylvania	9	14	Poland (Russian)	3	1
Ohio	4	3	Russia	2	1
Delaware	2	1	Scotland	2	1
Virginia	3	11	Austria	1	2
Missouri	1	.....	Africa	1	.....
New York	1	7	England	.....	4
Massachusetts	1	1	Italy	.....	3
Arkansas	1	.....	Finland	.....	1
Wisconsin	1	.....	Belgium	.....	1
New Jersey	1	2	Canada	.....	1
Illinois	1	.....	Switzerland	.....	1
District of Columbia	.....	2			
Louisiana	.....	2			
Alabama	.....	1			
South Carolina	.....	3		42	60
Unknown	2	1	Natives	106	132
	106	132		148	192

TABLE H.

Showing the Habits of Persons Admitted to Almshouse from January 1, 1898, to December 31, 1898; also a Comparison with 1897.

	1898.	1897.
Imtemperate adults	956	1,252
Temperate adults	572	394
Children of intemperate parents	1	3
Children of temperate parents	21	15
Unknown	11	7
	1,561	1,671

TABLE I.

Showing the Number of Births and Deaths in Each Month, and the Sex and Color from January 1, 1898, to December 31, 1898, Also a Comparison with 1897.

1898.	Births.					Deaths.				Deaths Child'n		
	White Males.	White Females.	Colored Males.	Col'd Females.	Totals.	White Males.	White Females.	Colored Males.	Col'd Females.	White.	Colored.	Totals.
January			1		1	8	7	3	4			22
February	1				1	8	5	3	3		1	20
March						8	5	6	3			22
April	2				2	12	3	8	4			27
May						4	7	3	7	1		22
June	1				1	5	1	2	4	1		13
July						9	7	8	2		1	27
August	1				1	2	7	5	2			16
September						8	6	5	3	1		23
October				1	1	10	4	3	3	1		21
November				1	1	7	4	4	1	1		17
December						4	4	9	2			19
Totals 1898	5		1	2	8	85	60	59	38	5	2	249
Totals 1897	6	2	4	3	15	81	49	57	29		1	217

GARDENER'S REPORT.

Showing Products of Farm and Expenses attached.

Farm Credit.

413	bus.	Carrots	at 50 cts.	per	bus.		$206 50
59	"	Onions	" 60 "	"	"		35 40
1,064	"	Turnips	" 15 "	"	"		159 60
214½	"	Parsnips	" 35 "	"	"		110 08
72½	"	Leeks	" 25 "	"	"		18 13
283	"	Sprouts	" 15 "	"	"		42 45
700	"	Tomatoes	" 60 "	"	"		420 00
44½	"	String Beans	" 30 "	"	"		13 35
60	"	Lima "	" 50 "	"	"		30 00
79	"	Peas	" 50 "	"	"		39 50
2	"	Red Peppers	" $1		"		2 00
300	"	Potatoes	" 50 "	"	"		150 00
250	bchs.	Sage	" 1 "	"	bch.		2 50
117	"	Thyme	" 1 "	"	"		1 17
4½	bus.	"	" 40 "	"	bus.		1 80
1,637	bchs.	Parsley	" ½ "	"	bch.		8 19
10,721	"	Spring Onions	" 01 "	"	"		107 21
579	"	Radishes	" 01 "	"	"		5 79
1,400	"	Beets	" 04 "	"	"		56 00
6,603	stks.	Celery	" 02 "	"	stk.		132 06
8,915	hds.	Cabbage	" 02 "	"	hd.		178 30
295	"	Lettuce	" 03 "	"	"		8 85
381		Squashes	" 02 "				7 62
1,991		Cucumbers	" ⅔ "				13 27
831	doz.	Corn	" 12 "	"	doz.		99 72
3		Calves					20 00
3		Calf-skins at 65 cts.					1 95
18,257	lbs.	Dressed Pork at 4 cts.					730 28
485	doz.	Eggs	" 15 "				72 75
34,551	gals.	Milk	" 15 "				5,182 65
20	tons	Hay	" $12				240 00
5	"	Straw	" 8				40 00
							$8,137 12

Farm Debit.

Salaries	$703 00
Exchange of horses and cows during the year	245 00
Feed and bedding for stock	2,151 54
Seeds and implements, shoeing and smithing	274 71
General repairs and sundries	132 40
	$3,506 65
Balance	4,630 47
	$8,137 12

REPORT

—— OF THE ——

Medical and Surgical Department.

MEDICAL AND SURGICAL DEPARTMENT.

Chief Resident Physician:

LEE COHEN, M.D.

First Assistant Resident Physicians:

R. L. FELTS, M.D. E. W. STEEVES, M.D.

Second Assistant Resident Physicians:

C. D. SNYDER, M.D. E. J. SAWABINI, M.D.

VISITING STAFF.

Physicians:

THOMAS S. LATIMER, M.D. JOSEPH T. SMITH, M.D.
C. HAMPSON JONES, M.D. WILLIAM B. CANFIELD, M.D.
JULIUS FRIEDENWALD, M.D. T. W. CLARK, M.D.
H. H. HAYDEN, M.D. JOSEPH E. GICHNER, M.D.
C. F. BLAKE, M.D.

Surgeons:

CHARLES F. BEVAN, M.D. J. HOLMES SMITH, M.D.
J. W. CHAMBERS, M.D. JOHN G. JAY, M.D.
HENRY FRIEDENWALD, M.D. I. R. TRIMBLE, M.D.
WILLIAM F. SMITH, M.D. FRANK MARTIN, M.D.
W. S. GARDNER, M.D. A. D. McCONACHIE, M.D.
S. McCLEARY, M.D. EDW. J. BERNSTEIN, M.D.

Neurologists:

GEORGE J. PRESTON, M.D. H. J. BERKELEY, M.D.

Gynecologist:

THOMAS OPIE, M.D.

Obstetrician:

L. E. NEALE, M.D.

Laryngologist:

M. R. WALTER, M.D.

Pathologist:

EUGENE OPIE, M.D.

REPORT OF CHIEF RESIDENT PHYSICIAN.

BAY VIEW ASYLUM, December 31, 1898.

To the President and Board of Trustees of the Poor:

LADIES AND GENTLEMEN: The Annual Report, which I now have the honor to submit, of the work accomplished in the Medical and Surgical Departments of Bay View Asylum during the year ending December 31, 1898, embodies not only the number of diseases treated, as did those of former years, but also contains, in the summing up, a mention of the actual number of patients treated in the wards and dispensaries during the year. It has been my object to include in this report only those coming under actual treatment, and therefore have not mentioned a number of chronic diseases existing about the institution, which in previous reports were made mention of. Thus the sum total of diseases treated will seem to be considerably less than that of last year, while in reality a larger number of seriously-ill patients were treated, as indicated by the continual scarcity of beds in our wards in spite of the greatly increased capacity afforded by the new Hospital Annex.

The new annex building has been a great source of comfort to the medical staff, and in its erection the Trustees have accomplished three most desirable purposes—first and foremost, the better isolation of the consumptives; secondly, the providing of better and more sanitary quarters for the old and decrepit men, who formerly occupied the antiquated frame annex buildings; and thirdly, the providing of more room, long greatly needed, in our regular hospital wards.

The total number of patients under treatment during the year was 2,836, some of this number having more than one disease, thus making the total number of diseases 3,367. Of the latter number 1,454 were cured; the condition of 698 was improved, and that of 374 unimproved.

The number of deaths was 212, thus leaving under treatment December 31, 1898, 629 diseases, while the actual number of patients remaining under treatment is 535. From the tabular statement on the following pages full details of our results may be learned.

In conclusion, I wish to express my appreciation of the services so cheerfully rendered by the visiting staff of medical officers.

Very respectfully,

LEE COHEN.

MEDICAL AND SURGICAL STATISTICS.

MEDICAL DISEASES.

Classified according to the nomenclature as published by the Royal College of London and American Medical Association.

Diseases.	Treated.	Discharged.				Remaining December 31, 1898.
		Cured.	Improved.	Unimproved.	Died.	
General Diseases.						
A.						
Anemia, secondary	39	29	4	1		5
Erysipelas, leg	1	1				
Fevers, malarial						
" quotidian	9	9				
" tertian	36	36				
" anestivo antuminal	18	14	4			
" remittent	5	5				
" typhoid	6	2				4
Strumous diathesis	4		2	1		1
Addison's disease	1				1	
B.						
Malaria cachexia	23	16	6	1		
Alcoholism	80	78				2
Colica pictonum	1	1				
Delirium tremens	3	3				
Malingering	52			52		
Opium habit	9	2	1	3		3
Rheumatism, acute articular	11	7	2		1	1
" chronic articular	84		41	12		31
" intercostal	3	3				
" gonorrheal	2	1				1
" sub-acute	14	9	3	1		1
Senility	67			12	11	44

MEDICAL DISEASES—Continued.

Diseases.	Treated.	Discharged.				Remaining December 31, 1898.
		Cured.	Improved.	Unimproved.	Died.	
Diseases of the Circulatory System.						
Nævus of lips	2		1			1
Aneurism, aortic	1					1
" sub-clavian	2					2
Apoplexy	4		1		3	
Arterio sclerosis	25			11	2	12
Heart, aortic stenosis	33		14	6	3	10
" " regurgitation	13		9	1		3
" mitral stenosis	4		3			1
" " regurgitation	72		35	11	6	20
" dilatation of	1				1	
Pericarditis, chronic adhesive	2				2	
Diseases of the Respiratory System.						
Asthma	10		7			3
Bronchitis, acute	45	43				2
" sub-acute	21	11	3	5		2
" chronic	65		38	9	2	16
Coryza, acute	71	65				6
Fibroma retronasel	1			1		
Emphysema	28		11	6	3	8
Exostosis of septum nasi	7	7				
Empyema	2				2	
Hemorrage of lung	23	21			2	
Influenza	19	17				2
Laryngitis, sub-acute	9	8				1
" chronic	6		5	1		
" syphillitic	7	5	2			
" tubercular	13		1	11		1
Nasal polypi	3	2	1			
Oedema of lung	2				2	
Purulent infiltration of lung	1				1	
Pleurisy, acute	8	6	1		1	
" chronic	10		6	1		3
Pneumonia, catarrhal	1				1	
" lobar	7	3			3	1
" hypostatic	2				2	
Phthisis, pulmonalis	149		28	17	71	33
" florida	2				2	

MEDICAL DISEASES—Continued.

Diseases.	Treated.	Discharged.				Remaining December 31, 1898.
		Cured.	Improved.	Unimproved.	Died.	
Pulmonary atelectasis	1			1		
Rhinitis, atrophic	13		6	4		3
" hypertrophic	9	6	2			1
" syphilitic	12		11			1
Diseases of the Digestive System.						
Amyloid liver	1				1	
Atonic dyspepsia	1		1			
Calculi, hepatic	2			2		
Cholera morbus	19	19				
Cirrhosis of liver	2			1		1
Tuberculosis of liver	1				1	
Chronic constipation	130	1	78			51
Diarrhœa, acute	56	54	1	1		
" chronic	27		12	9	5	1
" tubercular	42		26	12		4
Dysentery, acute	4	4				
Enteralgia	3	3				
Entero-calitis	1				1	
Intestinal-atony	1	1				
" obstruction	1				1	
Fecal impaction	5	5				
Gastrectasis	3		2			1
Gastritis, acute	1	1				
" sub-acute	4	2	2			
" chronic	10		6	2		2
Gastro-enteritis	2	2				
Jaundice, catarrhal	4	3	1			
Peritonitis	1				1	
" tubercular	3				2	1
Stomatitis, apthae	12	12				
" ulcerative	1	1				
Taenia, Solium	3	3				
Carcinoma, stomach	3				3	
Ulcer of stomach	2	1			1	
Diseases of the Fauces and Palate.						
Catarrh, post nasal	7	2	2	1		2
Pharyngitis, acute	51	49				2

MEDICAL DISEASES—Continued.

Diseases.	Treated.	Discharged.				Remaining December 31, 1898.
		Cured.	Improved.	Unimproved.	Died.	
Pharyngitis, chronic	8		4			4
Tonsilitis, simple	29	29				
" follicular	4	4				
" chronic	6	3	1	1		1
Diseases of the Cutaneous System.						
Alopecia, areata	1	1				
Dermatitis, mendicamentosa	12	12				
" rhus	1	1				
Eczema, acute	5	4				1
" chronic	12		7	3		2
Herpes, zoster	3	3				
Psoriasis, specific	4	2				2
" vulgaris	4		3			1
Scabies	4	4				
Tinea, sycosis	2	1				1
Urticaria	19	19				
Leucoderma	2			2		
Diseases of the Urinary System.						
Cystitis, acute	7	7				
" chronic	22		17	3		2
Calculi, renal	1		1			
Diabetes, insipidus	3		1	1		1
" mellitus	1					1
Nephritis, acute	1				1	
" chronic interstitial	97		50	13	19	15
" parenchymatous	31		9	8	11	3
Malarial, haematuria	1		1			
Amyloid, kidney	1				1	
Pyelitis	3		1	1		1
Pyelo-nephritis	1				1	
Uraemic, coma	3				3	
" toxemia	12	11				1
Diseases of the Ear.						
Cerumen, impacted	12	12				
Otitis, externa	2	2				
Chronic adhesive aural catarrh	5			2		3
Otitis, media purulent	4	1	2			1

MEDICAL DISEASES—Continued.

Diseases.	Treated.	Discharged.				Remaining December 31, 1898.
		Cured.	Improved.	Unimproved.	Died.	
Diseases of the Eye.						
Blepharitis marginalis	10	10				
Cataract	2	1				1
Corneal ulcer	4	2	1			1
Conjunctivis, simple	20	20				
" purulent	3	2		1		
Dacryocystitis	5	4				1
Ectropion	1					1
Entropion	2			1		1
Glaucoma	2			1		1
Iritis	13	10	1			2
Keratitis	1					1
Oculo-motor paralysis	1		1			
Optic atrophy	2					2
Pannus	1	1				
Pan-opthalmitis	4	2	1			1
Pterygium	2	2				
Retinitis pigmentosa	1					1
Staphyloma	2			2		
Tracoma	2	1	1			
Trichiasis	7		7			
Enencleation	2	2				
Diseases of the Nervous System.						
Athetosis	2					2
Aphasia	9		2			7
Cerebral concussion	1	1				
" embolism	1		1			
Cerebral tumor	1				1	
Cephalgia	90	90				
Chorea	3					3
Catalepsy	1			1		
Dementia senile	21					21
Epilepsy	36		4	2		30
" Jacksonian	1		1			
Epilepticus, status	1				1	
Gastralgia	11	8	3			
General cutaneous and sensory anasthesia	1				1	
Hemplegia	39		3	9		27
Hypochondriasis	1		1			

MEDICAL DISEASES—Continued.

Diseases.	Treated.	Discharged.				Remaining December 31, 1898.
		Cured.	Improved.	Unimproved.	Died.	
Hydrocephalus	1			1		
Hysteria	13		3	2		8
Idiocy	12			1	2	9
Lumbago	51	51				
Melancholia	7		2	3		2
Meningitis, cerebro-spinal	1	1				
" spinal	2			1		1
Monplegia	1	1				
Myelitis, transverse	18			2	4	12
Neuralgia, facial	19	11	5	3		
" intercostal	9	9				
Neurasthenia	3		2	1		
Neuritis, simple	1	1				
" multiple	4	1	2			1
" traumatic	1	1				
Polio, myelitis anterior						
Paralysis	1					1
" facial	2			1		1
" bulbar	1				1	
" crutch	1	1				
" pressure	2					2
Progressive muscular atrophy, spinal	3					3
Pott's diseases	2				1	1
Sciatica	7	4	2			1
Sclerosis, lateral	5			4		1
" multiple	6			1	2	3
" posterio-spinal	10			3		7
Torticollis	1	1				
Diseases of Women.						
Adino-carcinoma of ovary	1				1	
Amenorrhea	5		4	1		
Cystocele	1		1			
Cervix, laceration of	3	1	1	1		
Dysmenorrhea	18	4	9	3		2
Endocervicitis	16		11	2		3
Endometritis	11		6	3		2
Hypertrophy of labia	7			7		
Hysterorraphy	1	1				
Menorrhagia	12	3	7	2		
Metrorrhagia	11		11			

MEDICAL DISEASES—Concluded.

Diseases.	Treated.	Discharged.				Remaining December 31, 1898.
		Cured.	Improved.	Unimproved.	Died.	
Mastitis	2	2				
Ovarian cyst, multilocular	2			1	1	
Oophorectomy	2	1				1
Papilloma vulvae	7	7				
Perineorrhaphy	2	2				
Pruritus vulvae	7		4	2		1
Puerperal fever	1	1				
Rectocele	1			1		
Recto-vaginal fistula	1					1
Salpingitis	1					1
Urethra, carbuncle	2	2				
" lacerated	1					1
Uterus, anteflection	2			1		1
" anteversion	2		1	1		
" fibroid of	11			8		3
" polypus of	1	1				
" procedentia of	2			2		
" retroflexion of	6	1	1	4		
" retroversion of	3		1	2		
Vaginitis, simple	5	5				
" specific	16	14	2			
Total medical diseases	2,553	972	578	311	189	503

SURGICAL DISEASES.

Diseases.	Treated.	Discharged.				Remaining December 31, 1898.
		Cured.	Improved.	Unimproved.	Died.	
Appendicitis	2	2				
Burns of arm	3	3				
" of hand	2	2				
" of leg	2	2				
" of body	2				2	
Dislocation of clavicle	2	2				
" of hip	1	1				
" of jaw	1	1				
" of tarsus	1	1				
" of shoulder	1	1				
Fracture						
" of femur (neck)	9		1	2		6
" of Patella	2	1		1		
" of Potts	2	2				
" of finger	1	1				
" of humerus	1	1				
" of lower jaw	3	3				
" of skull	2	1			1	
" of ribs	8	7				1
" of radius (Colles)	5	4				1
" of ulna	1	1				
Frostbite	7	6				1
Oyster hand	21	19				2
Sprain of ankle	6	5				1
" of wrist	3	3				
Wounds, contused	16	15				1
" incised	11	11				
" lacerated	19	17				2
" punctured	1	1				
Venereal Diseases.						
Adenitis Ing	24	19	3			2
Balanitis	11	11				
Chancroid, simple	26	24				2
" phagedenic	5	5				
Epididymitis	8	8				
Gonorrhea	23	16	3	1		3
Hypospadias	2		1	1		
Orchitis	5	5				
Phimosis	16	16				
Para-phimosis	9	9				

SURGICAL DISEASES—Continued.

Diseases.	Treated.	Discharged.				Remaining December 31, 1898.
		Cured.	Improved.	Unimproved.	Died.	
Stricture, urethral	22	5	13	1		3
Syphilis, congenital	3		1		1	1
" primary	3		2	1		
" secondary	28		17	7	1	3
" tertiary	57		32	6	1	18
Warts, venereal	30	30				
Unclassified.						
Abscess of arm	4	4				
" of axillary	1	1				
" of buccal	2	2				
" of chest wall	2	2				
" of foot	3	2	1			
" of hand	1	1				
" ischio-rectal	3	3				
" mediastinal	1	1				
" of neck	3	3				
" psoas	2		1		1	
" of knee	3	1		1		1
" peri-rectal	1	1				
" tubercular	2		1	1		
Anchylosis of elbow	2		1	1		
" of knee	1		1			
Fibroma of knee	2	1				1
Adenitis, cervical	5	3	1			1
Amputation of finger	1	1				
" of leg	1				1	
" of prepuce	7	6				1
Arthritis, deformans	7			3		4
" of ankle (traumadic)	1	1				
Bursitis	2	2				
Castration	1	1				
Carcinoma of face	2				1	1
" of groin	1				1	
" of stomach	1				1	
" of tongue	1					1
" of uterus	10			2	4	4
Cystotomy, supra-pubic	1				1	
Caries of ilium	1				1	
Carbuncle	22	22				
Cyst, sebaceous	3	3				

SURGICAL DISEASES—Continued.

Diseases.	Treated.	Discharged.				Remaining December 31, 1898.
		Cured.	Improved.	Unimproved.	Died.	
Cellulitis of hand	11	11				
" of face	1	1				
" of leg	2	2				
" of foot	2	1	1			
Coxalgia	1					1
Elephantiasis of leg	1			1		
Epithelioma of face	3	2		1		
" of eye-lid	1			1		
Fistula in ano	1	1				
Furunculosis	65	65				
Gangrene of finger	1	1				
" of foot	4				3	1
Gumma of clavicle	1	1				
" of tibia	2	2				
" of palate	4	2	1			1
Hemorrhoids, external	19	7	5	7		
" internal	7	4	2	1		
Hernia, inguinal	8	4		3		1
" strangulated	2				2	
" umbilical	3			1		2
" ventral	3			3		
Hydrocele	3		1			2
Hematoma of arm	1	1				
Kyphosis	2					2
Lipoma	2	2				
Lymphangitis	2	2				
Nephrectomy	1	1				
Necrosis, lower jaw	3	1				2
" nasal	3	3				
" sacrum	1					1
" sacro-iliac	1				1	
" coccyx	1	1				
Osteitis, finger	1	1				
Paronychia	5	5				
Prolapsus of rectum	1	1				
Prostatic hypertrophy	20			3		17
Stricture of rectum	1			1		
Synovitis	2	2				
Spermatorrhea	1			1		
Skin grafting	9	8				1

SURGICAL DISEASES—Concluded.

Diseases.	Treated.	Discharged.				Remaining December 31, 1898.
		Cured.	Improved.	Unimproved.	Died.	
Tubercular glands	3	2				1
" knee joint	1					1
Ulcer of foot (perforating)	2	1				1
" of leg	78	22	21	11		24
" of rectum	2	2				
Varicocele	7		7			
Varix	12	1	3	1		7
Total surgical diseases	814	482	120	63	23	126

Recapitulation.

Total ingress of diseases	3,367
" egress " "	2,738
Remaining December 31, 1898	629
Total ingress of patients	2,836
" egress " "	2,301
Remaining under treatment December 31, 1898	535

REPORT

— OF THE —

INSANE DEPARTMENT.

INSANE DEPARTMENT.

Chief Resident Physician:
R. E. GARRETT, M.D.

First Assistant Resident Physician:
A. C. THOMAS, M.D.

Second Assistant Resident Physician:

VISITING STAFF.

Alienists:
HENRY J. BERKLEY, M.D.
E. M. SINGEWALD, M.D.
STEWART PATON, M.D.

Surgeon:
EUGENE McE. VAN NESS, M.D.

Gynecologist:
J. WHITRIDGE WILLIAMS, M.D.

Opthalmologist:
JAMES J. MILLS, M.D.

REPORT OF THE RESIDENT PHYSICIAN.

BAY VIEW ASYLUM, December 31, 1898.

To the President and Board of Trustees of the Poor:

I have the honor to submit the medical report of the Insane Department for the year ending December 31, 1898:

At the close of the last fiscal year the population of the hospital was 419. During the present year there have been 180 admissions, making in all 599 patients, who have been under treatment during some part of the year.

Of this number 127 were transferred to Springfield Asylum, 31 have been discharged as cured, 27 as improved, 18 as unimproved, and 37 have died, leaving a balance of 359.

The general physical health of the patients has been good. We have had no epidemic of a grave nature, and although recently quite a number of the patients have had la grippe, in no case has the disease proved fatal. There has been no serious accident or death by suicide.

As much liberty as possible is given the patients, and many of the harmless ones are paroled about the grounds, and although we have had two escapes, it would be indeed selfish, in order to make a creditable return for ourselves, to sacrifice the personal comfort of the patients.

The recreating grounds, although small, have been used almost daily, and any amount of fresh air and exercise has been furnished; foot-ball, base-ball and indoor games have been provided, and the patients encouraged to indulge in these diversions.

The bi-monthly dances have been continued.

The change made by transferring all the male patients to one building, and putting all the females in the other, has proven to be a most satisfactory arrangement, and is more convenient in many respects.

But, although this advantageous change has been made, it will be seen from the table below that there is an overcrowding in Ward IV, colored female; that Ward VI, colored male, has its full capacity, and that in the other wards there are very few vacancies for the coming year's admissions:

	Capacity.	*Population.*
Ward I —White Female.....	65	58
Ward II — " "	72	73 (Refractory.)
Ward III— " "	72	59
Ward IV—Colored Female.....	78	85
Ward V —White Male.....	50	34
Ward VI—Colored Male.....	50	50

As you are well aware, there are no great strides of reform nor startling innovations to report, but in summing up the year's work, I take great pleasure in noting that there has been decided improvements along certain lines throughout the hospital.

The increased dietary has been a source of great benefit, satisfaction and enjoyment to the patients.

The addition of two nurses for the night service has not only been helpful to me, but has added so much to the comfort and well-being of the patients.

The plastering and painting of Hall 3 has rendered it cosy and inviting, to the great delight of the occupants of that ward.

The new sewing-room, which has been fitted up in Ward 3, will be an additional attraction, and will stimulate many to work who have hitherto been idle. With this room we hope to systematize the work so that larger returns are expected.

Recognizing the great value of employment in the treatment of the insane, we have endeavored to keep them busy.

The female patients, besides doing dressmaking, plain sewing and repairing, have embroidered (in two months) enough pillow-shams to furnish two dormitories of Ward I.

During the year 4,169 garments have been made and 19,000 repaired.

It is not always such an easy matter to find suitable employment for the men, especially during the winter. An "industrial department" for them would be highly beneficial.

During this, as well as for the past ten years, the asylum has had the benefit of the advice and long experience of Dr. Henry J. Berkley, to whom I am especially grateful for much help and many valuable suggestions.

I desire to acknowledge my obligations to the Visiting Staff and to my Assistant, Dr. A. C. Thomas, for the able assistance which he has always so cheerfully rendered.

For whatever success has been attained during the year in the management of the hospital a full share of the credit is due and is cheerfully accorded to our Superintendent, Louis F. Zinkhan, to whom I am indebted for much good advice.

I wish to thank each member of the Board for the kindness and courtesy with which I have been treated.

Very respectfully,

ROBERT E. GARRETT.

INSANE STATISTICS.

TABLE A.

General Statement for the Year Ending December 31, 1898.

	White Males.	White Females.	Colored Males.	Colored Females.	Totals.
Number of patients in Hospital Dec. 31, 1897...	138	173	41	67	419
Admitted from Baltimore.....	50	51	25	32	158
Transferred from Almshouse.....	4	14	1	3	22
Total number under treatment.....	192	238	67	102	599
Number of patients discharged.....	20	33	9	6	68
Transferred to Springfield Insane Asylum.....	127	.....	.....	.....	127
" " Almshouse.....	1	5	1	1	8
Died.....	10	10	7	10	37
Total egress during the year.....	158	48	17	17	240
Remaining in Hospital December 31, 1898.....	34	190	50	85	359
In Insane Hospital twice during the year.....	3	7	....	....	10

TABLE B.

Showing Time of Residence of Those Discharged Otherwise Than by Death.

	White Males.	White Females.	Colored Males.	Colored Females.	Totals.
One month or less.....	17	17	2	2	38
Between 1 and 2 months.....	5	6	3	2	16
" 3 " 6 "	15	5	1	1	22
" 6 " 12 "	8	6	4	1	19
" 1 " 2 years.....	17	1	....	1	19
" 2 " 5 "	32	2	...	....	34
" 6 " 8 "	16	1	....	...	17
" 8 " 10 "	11	....	....	....	11
" 10 " 12 "	10	....	....	....	10
" 12 " 15 "	9	....	....	....	9
" 15 " 20 "	3	....	....	....	3
" 20 " 30 "	5	....	....	....	5
	148	38	10	7	203

TABLE C.

Showing Monthly Admissions, Discharges, Deaths and Number of Patients.

	Admission.	Discharged.	Died.	No. of Patients at end of each month.
January	9	9	5	414
February	13	7	3	417
March	14	105	3	323
April	15	4	3	331
May	25	9	6	341
June	17	8	2	348
July	21	31	1	337
August	12	6	2	341
September	12	4	5	344
October	12	8	2	346
November	16	3	1	358
December	14	9	4	359
	180	203	37	

Average number of patients during the year..... $354\frac{11}{12}$
Highest " " " January 16, 1898..... 423
Lowest " " " March 30, 1898..... 323

TABLE D.

Showing Nativity of Patients Admitted During the Year.

Baltimore	65	Russia	11
Maryland	33	Germany	17
Virginia	19	Ireland	8
Pennsylvania	5	England	1
New Jersey	1	Bohemia	1
New York	1	Poland	1
Delaware	1	Scotland	1
Massachusetts	1	Spain	1
Alabama	1	Jamaica	1
Mississippi	1	Unknown	8
South Carolina	1		
Austria	1		
Total			180

TABLE E.

Showing Occupation of Those Admitted During the Year.

Agent	1	Laborer	29
Book-keeper	2	Merchant	1
Blacksmith	3	Moulder	1
Bar-keeper	1	Market woman	1
Baker	2	Machinist	1
Brakeman	1	Nurse	3
Cabinet maker	1	None	4
Cook	2	Painter	2
Carpenter	3	Plumber	1
Canmaker	1	Rigger	1
Cigarmaker	1	Stevedore	1
Clerk	1	Stoker	1
Domestic	52	Sailor	1
Driver	1	Seamstress	1
Engineer	3	Store-keeper	1
Fireman	1	Tailor	2
Housewife	25	Tailoress	1
Housekeeper	2	Waiter	3
Huckster	3	Unknown	19
		Total	180

TABLE F.

Showing Mental Condition of Those Admitted During the Year.

Mania, acute	3	General paresis	9
" sub-acute	14	Chronic delusional insanity	6
" chronic	4	Paranoia	5
" periodical	4	Epileptic insanity	13
" recurrent	8	Puerperal "	3
Melancholia, acute	6	Climacteric "	4
" agitata	2	Hysterical "	1
Dementia, acute (post-febrile)	1	Adolescent "	2
" terminal	4	Acute alcoholic insanity	8
" syphilitic	6	Chronic " "	11
" Traumatic	1	Imbecility	36
" organic	4	Idiocy	3
" presenile	4	Opium inebriety	1
" senile	15		
Acute confusional insanity	2	Total	180

TABLE G.

Showing Time of Residence of Those Who Died During the Year.

	White Males.	White Females.	Colored Males.	Colored Females.	Totals.
One month or less	4	....	2	3	9
Between 1 and 3 months	1	....	1	....	2
" 3 " 6 "	1	3	3	1	8
" 6 " 12 "	2	....	1	1	4
" 1 " 2 years	....	2	....	1	3
" 2 " 4 "	....	1	....	1	2
" 4 " 6 "	....	2	....	....	2
" 6 " 8 "	1	....	....	....	1
" 10 " 12 "	1	1	....	....	2
" 12 " 15 "	....	1	....	2	3
29 years	....	....	....	1	....
Totals	10	10	7	10	37

TABLE H.

Showing Cause of Death of Those who Died During the Year.

Apoplexy	2	Exhaustion of Chronic Mania	1
Acute Gastritis	1	Mitral Regurgitation	2
Acute Intestinal Obstruction	1	Mitral Insufficiency	1
Cerebral Hemorrhage	1	Multiple Sclerosis	1
Exhaustion of Chronic Alcoholism	1	Melancholia Agitata	1
Exhaustion of General Paresis	1	Nephritis Chronic Interstital	3
" Syphilitic Dementia	1	Nephritis Chronic Parenchymatous	1
Exhaustion of Senile Dementia	4	Phthisis Pulmonalis	8
Exhaustion of Secondary Dementia	1	Puerperal Infection	1
		Pneumonia	4
		Typhoid Fever	1
Total			37

TABLE I.

Showing Mental Disorders of Those who Died During the Year.

Alcoholic Insanity, chronic	3	Delirium Febrile	1
Clemacteric Insanity	1	General Paresis	2
Dementia, Epileptic	1	Imbecility	2
" Organic	2	Mania, puerperal	1
" Presenile	1	" chronic	3
" Senile	6	" sub-acute	2
" Secondary	2	Melancholia, chronic	1
" Syphilitic	2	" agitata	1
" Terminal	4	Senility	1
Delusional Insanity, chronic	1		
Total			37

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